FORMER GETTY SERVICE STATION

NEW YORK, NEW YORK

Remedial Investigation Report

NYC VCP Site Number: 14CVCP243M

Prepared for:

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Craig Werle, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Former Getty Service Station Site, (OER Project No. 14EH-N323M, NYC VCP Site No. 14CVCP243M). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Craig A. Werle, P.G.	May 12, 2014	
Qualified Environmental Professional	Date	Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 239 10th Avenue in the Chelsea section in Manhattan, New York and is identified as Block 696 and Lot 32 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 5,535-square feet and is bounded by a parking garage and residential building to the north, West 24th Street to the south, mixed-use buildings to the east across 10th Avenue, and a one-story art gallery followed by the Highline Park to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is occupied by the closed Getty service station and contains a one-story commercial building previously used as a convenience store.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a mixed-use condominium building occupying the entire footprint of the property with basement and sub-basement levels. The upper floors will be comprised of residential units and the ground floor will have some commercial space. Layout of the proposed site development is presented in Figure 3. The current zoning designation is C6-3 which is approved for the development of mixed use residential and commercial buildings. The proposed use is consistent with existing zoning for the property.

The building will be eleven stories high and will include a rear courtyard. The basement level is planned to include the entire property footprint (5,535 square feet). The sub-basement level will include setbacks on the north and west sides and will measure approximately 3,961 square feet. The sub-basement level will provide amenities for the building residents and the basement level will consist of commercial and mechanical space. The proposed construction includes excavation of onsite soils down to 30 feet below grade to accommodate the construction of the basement and sub-basements. An additional 8 feet will be excavated in a limited central area for the installation of an elevator pit and sump. The anticipated volume of soil to be excavated is 5,245 cubic yards (CY). The proposed Site redevelopment plan includes the

construction of a soil mix cut-off wall along the perimeter of the Site that will be socketed into bedrock. The water table occurs at approximately 7 to 10 feet below grade, therefore dewatering is anticipated.

Summary of Past Uses of Site and Areas of Concern

The Site is located in an area of historical mixed-use residential, commercial, and light industrial usage and was operated as a gasoline filling station from at least 1930 until its recent decommissioning in 2013. Historic Sanborn Maps identify that the Site operated as a small portion of a gas light fixture manufacturing facility that occupied the eastern third of the block in the 1890's.

The AOCs identified for this site include:

1. The entire property since the Site was a former gasoline filling station.
2. Two gasoline USTs and associated product piping and dispensers located onsite.

Summary of the Work Performed under the Remedial Investigation

VHS 239, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e., structures, buildings, etc.);
2. Performed a geophysical survey of the Site utilizing Ground Penetrating Radar (GPR) and electromagnetic locator;
3. Installed seven soil borings across the entire project Site, and collected seventeen soil samples for chemical analysis from the soil borings to evaluate soil quality;
4. Installed one groundwater monitoring well and took measurements from existing groundwater wells to establish groundwater flow direction and collected five groundwater samples (from new and existing wells) for chemical analysis to evaluate groundwater quality;
5. Installed three soil vapor probes around Site perimeter and collected three samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from 10 to 12 feet.

2. Depth to groundwater ranges from 7 to 10 feet at the Site.

3. Groundwater flow is generally from south to southwest beneath the Site.

4. Depth to bedrock is approximately 55 feet at the Site.

5. The stratigraphy of the site, from the surface down, consists of 10 feet of fill underlain by 20 feet of fine to medium sand with interbedded layers of silt.

6. Soil/fill samples collected during investigation were compared to 6NYCRR Part 375 Track 1 Soil Cleanup Objectives (SCOs). VOCs including 1,2,4-trimethylbenzene (ranging from 6,800 to 61,000 micrograms per kilogram (µg/kg)) in three shallow samples; benzene at 380 µg/kg in one shallow sample; ethylbenzene (ranging from 1,100 to 8,200 µg/kg in two shallow samples; n-propylbenzene (at 9,400 µg/kg) in one shallow sample, and toluene (at 920 µg/kg) in one shallow sample exceeded Track 1 Unrestricted Use SCOs. SVOCs including benzo(b)fluoranthene (maximum [max.] of 1,400 µg/kg), ideno[1,2,3-cd]pyrene (max. of 670 µg/kg) and napththalene (at 13,000 µg/kg) exceeded Track 1 Unrestricted Use SCOs in three shallow samples. Metals including chromium (max. of 190 ppm); copper (max. of 150 ppm); lead (max. of 100 ppm); mercury (max. of 0.32 ppm); and zinc (max. of 300 ppm) exceeded Track 1 Unrestricted Use SCOs in five shallow soil samples. PCBs exceeded Track 1 Unrestricted Use SCOs in three shallow soil samples and ranged from 189 to 805 ppm. Pesticides 4,4'-DDE (max. of 10.3 µg/kg); 4,4'-DDT (max. of 8.96 µg/kg); and dieldrin (7.28 µg/kg) exceeded Track 1 Unrestricted Use SCOs in three shallow soil samples. Based on these results, the exceedances found across the Site are indicative of past site operations as a service station and the presence of historic fill. Endpoint soil samples collected from each boring at the proposed redevelopment excavation depth of 30 feet did not detect any VOC, SVOC, or metal constituents above Track 1 Unrestricted Use Criteria standards.

7. Groundwater sample results were compared to NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS). Laboratory analysis of groundwater showed that some VOCs, SVOCs, and

metals exceeded the AWQS in some locations. Total VOC concentrations varied from non-detect to 712 micrograms per liter (µg/L) and off-site VOC concentrations ranged from 727 to 5,909 µg/L. Analytical results identified concentrations of benzene (max. of 380 µg/L), toluene (max. of 29 µg/L), ethylbenzene (max. of 14,000 µg/L) and m+p xylenes (max. of 720 µg/L) and other petroleum breakdown products in some onsite and offsite wells as a result of past site operations. These concentrations have significantly reduced over last five years. SVOCs including chrysene (0.11 µg/L in SB-1/TP-1), naphthalene (14 µg/L in MW-7 and 280 µg/L in MW-5), and pentachlorophenol (9.3 µg/L in MW-5) exceeded their AWQS. Several metals were identified but only iron (max. of 35,100 µg/L), manganese (max. of 2234 µg/L), and sodium (max. of 749,000 µg/L) in the dissolved samples exceeded their respective AWQS.

8. Soil vapor samples collected during the RI were compared to the compounds listed in Table 3.1 Air Guideline Values Derived by the NYSDOH located in the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion. Soil vapor samples collected during the 2014 RI indicated petroleum related VOCs were present at moderate concentrations and chlorinated VOCs were present at low concentrations. The petroleum related compounds included trimethylbenzene, cyclohexane, ethylbenzene, heptane, isooctane, xylenes, MTBE, n-hexane, and toluene. The chlorinated VOC tetrachloroethene (PCE) was detected at 15.6 µg/m^3 in one of three samples. Carbon tetrachloride, TCA and TCE were not detected. Concentrations of PCE are below the monitoring range established by NYSDOH matrix.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

VHS 239, LLC plans to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.1-acre site located at 239 10th Avenue in Chelsea section of Manhattan, New York. Mixed commercial residential use is proposed for the property. The RI work was performed between January 31 and February 10, 2014. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 239 10th Avenue in the Chelsea section in Manhattan, New York and is identified as Block 696 and Lot 32 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 5,535-square feet and is bounded by a parking garage and residential building to the north, West 24th Street to the south, mixed-use buildings to the east across 10th Avenue, and a one-story art gallery followed by the Highline Park to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is occupied by the closed Getty service station and contains a one-story commercial building (approximately 1,900 square feet) previously used as a convenience store.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a mixed use condominium building occupying the entire footprint of the property with basement and sub-basement levels. Layout of the proposed site development is presented in Figure 3. The current zoning designation is C6-3 which is approved for the development of mixed use residential and commercial buildings. The upper floors will be comprised of residential units and the ground floor will have some commercial space. The proposed use is consistent with existing zoning for the property. The building will be eleven stories high and will include a rear courtyard. The basement level is planned to include the entire property footprint (5,535 square feet). The sub-basement level will include setbacks on the north and west sides and will measure approximately 3,961 square feet. The sub-basement level will provide amenities for the building residents and the basement level

will consist of commercial space and mechanical space. The proposed construction includes excavation of onsite soils down to 30 feet below grade to accommodate the construction of the basement and sub-basements. An additional 8 feet will be excavated in a limited central area for the installation of an elevator pit and sump. The anticipated volume of soil to be excavated is 5,245 cubic yards (CY). The proposed Site redevelopment plan includes the construction of a soil mix cut-off wall along the perimeter of the Site that will be socketed into bedrock. The water table occurs at approximately 7 to 10 feet below grade, therefore dewatering is anticipated.

1.3 Description of Surrounding Property

The surrounding area is used for industrial, commercial, and residential purposes. Mixed-use residential and commercial buildings border the Site to the west, north, and east across 10th Avenue. A carwash borders the Site to the south across West 24th street.

The majority of surrounding properties have a commercial zoning designation or a mixed residential and commercial building zoning designation. According to the NYCOER Speed GIS Database, a school (Avenues NYC) and a daycare (Hudson Guild Child's Center) are located within 500-foot radius from the Site. Figure 4 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The Site is located in an area of historical mixed use residential, commercial, and light industrial usage and was operated as a gasoline filling station from at least 1930 until its recent decommissioning in 2013. Historic Sanborn Maps identify that the Site operated as a small portion of a gas light fixture manufacturing facility that occupied the eastern third of the block in the 1890's.

2.2 Previous Investigations

The Phase I ESA completed by Merrit Environmental Consulting Corporation (Merrit) in April 2013 concluded that, based on the information provided, gasoline volatile organic compounds (VOCs) are present in the groundwater beneath the Site at concentrations above the NYSDEC Groundwater Quality Standards.

The Phase I ESA also noted the following recognized environmental conditions (RECs):

- Evidence of spills (Spill #9707190 remains open);
- Two 10,000-gallon gasoline USTs are located at the property;
- Three 4,000-gallon gasoline USTs, twelve 550-gallon gasoline USTs, one 275-gallon fuel oil UST, and two fueling pump island were removed from the Site in 1998; and
- Groundwater impacted with VOCs is present in the subsurface at the Site.

The Phase I also noted the Site has an E-designation for Hazardous Materials, Air Quality and Noise; and that exterior drainage basins exit at the property.

In September 1997, Tyree Environmental Corporation conducted a repair of a remote fill located the southern edge of the property. During the repair activities, petroleum impacted soil was encountered and Spill #97-07190 was assigned by the NYSDEC.

In 1998, a site-wide soils remediation program was carried out at the Site that included the removal of twelve 550-gallon gasoline USTs, three 4,000-gallon gasoline USTs, one 275-gallon fuel oil UST and two fueling pump islands and a total of 1,853 tons of impacted soil. Seven sidewall samples (SW-1 through SW-7) were collected between 5 and 10 feet below grade and post-excavation bottom samples (SW-8, SW-9, Fuel Oil Tank) were collected from 10 to 20 feet below grade. Analytical results identified concentrations of BTEX and other petroleum breakdown products above the NYSDEC Part 375 Restricted Residential Use Criteria in the unsaturated zone and above NYSDEC Restricted Commercial/Industrial Use Criteria in the saturated zone.

Groundwater sampling activities at the Site began with collection of a grab groundwater sample from the excavation following the UST removals in 1998. Analytical results revealed that groundwater was impacted with BTEX (33 parts per million [ppm]) and MTBE (276 ppm). Based on these results, monitoring wells MW-1 through MW-3 were installed onsite in April 2001. NYSDEC subsequently requested the installation of additional offsite monitoring wells (MW-4 through MW-7) in the sidewalk bordering the property to delineate any offsite impacts. These wells were installed and sampled in April 2005. Analytical results revealed that offsite BTEX concentrations exceeded NYSDEC Ambient Water Quality Standards (AWQS). Monitoring wells MW-8 through MW-12 were installed farther offsite to complete the delineation of groundwater impacts. These wells were installed between May 2006 and March 2012. Quarterly groundwater monitoring from the onsite/offsite well network has been conducted by Tyree Environmental Corporation (Tyree) from 2001 through 2012. In Tyree's October 2012 Quarterly Monitoring Report, a request to close Spill #97-07190 was made to NYSDEC based on soil and groundwater quality conditions.

2.3 Site Inspection

A Site inspection was performed on January 20, 2014 by Craig Werle of Roux Associates. During the inspection, it was observed that the Site was an inactive Getty Service Station. The one-story convenience store, as well as the pump islands and canopy, remained onsite. Three unlabeled drums are located adjacent to the convenience store. Three monitoring wells are onsite and nine monitoring wells are offsite.

2.4 Areas of Concern

Areas of Concern (AOCs) generally include areas where existing or former activities are known or suspected to have resulted in generation, manufacture, refinement, transport, storage, handling, treatment, discharge, release and/or disposal of contaminated media.

The AOCs identified for this site include:

1. The entire property since the Site was a former gasoline filling station.
2. Two gasoline USTs and associated product piping and dispensers located onsite.

The Site has been a former gasoline filling station since the 1930's until its recent decommissioning in 2013. Two 10,000-gallon USTs, subsurface product piping and two pump islands remain at the Site that will be removed as part of site development activities.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Craig Werle.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. The Health and Safety Plan (HASP) is included in Appendix B.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

VHS 239, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e., structures, buildings, etc.);
2. Performed a geophysical survey of the Site utilizing Ground Penetrating Radar (GPR) and electromagnetic locator;
3. Installed seven soil borings across the entire project Site, and collected seventeen soil samples for chemical analysis from the soil borings to evaluate soil quality;
4. Installed one groundwater monitoring well throughout the Site and took water level measurements from existing groundwater wells to establish groundwater flow direction and collected five groundwater samples (from new and existing wells) for chemical analysis to evaluate groundwater quality;
5. Installed three soil vapor probes around Site perimeter and collected three samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical survey was performed on January 31, 2014 by Diversified Geophysics, Inc. (DGI). The geophysical survey was comprised of a series of GPR traverses and site-wide radio frequency/electromagnetic (RF/EM) scans. GPR data was collected with Sensors and Software 250 MHz Noggin SmartCard. All utility located were painted with appropriate color on the concrete sidewalk. The geophysical survey indicated that all services to the convenience store were located. Water, electric and sanitary sewer services entered/exited the property on West 24th Street and were located to the west of the tank farm in the southwest corner of the property. Unknown linear anomalies were observed west/east from the east exterior wall of the store to 10th Avenue at a point 4ft north of the SE corner of the store, at 3.5 ft east of the adjacent building and approximately 6ft north of northernmost fuel pumps.

The final geophysical survey report is provided as Appendix C.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

Drilling was performed by Aquifer Drilling and Testing (ADT) between February 3 and 10, 2014. A total of one soil boring/temporary well and six soil borings were advanced using direct push drilling method to depths varying from 32 to 38 feet below grade. A summary of the soil boring construction details is included in Table 1.

Boring logs were prepared by a geologist and are attached in Appendix D. A map showing the location of soil borings and monitoring wells is shown in Figure 5. The boring logs include a description of the soil types and non-soil materials; soil screening results from photoionization detector (PID), depth to groundwater, presence of soil mottling, presence of odor, vapors, soil discoloration, and presence of free and/or residual product. Elevated PID readings were observed near the groundwater table. The soil was mostly comprised of fill followed by fine to medium grained sand mixed with gravel and interbedded layers of silt.

Groundwater Monitoring Well Construction

One temporary monitoring well (SB-1/TP-1) was installed in front of the former convenience store, The intended well location was inside the store, however, the low ceiling height precluded drill rig access. Construction details are presented in Table 1. The temporary monitoring well as well as existing well locations are shown in Figure 5.

Survey

The temporary monitoring well was not surveyed, however the existing Site monitoring wells have been previously surveyed.

Water Level Measurement

Water level measurements were conducted with the use of a water level meter. Water level data was measured from the top of the casing and is included in Table 2. A groundwater flow map based on a survey of the onsite and offsite wells on December 2013 is included as Figure 6.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Sampling equipment was decontaminated by using water and detergent solution between soil boring locations to avoid cross contamination. All soil samples were stored on ice in a cooler and transported under chain of custody procedures to Alpha Analytical, which is a New York State Department of Health (NYSDOH)-certified environmental laboratory.

Seventeen soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths as well as the number of QA/QC samples, are reported in Tables 3 and 4, respectively. Figure 5 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Groundwater sampling was performed using a peristaltic pump and dedicated tubing. Sampling equipment was decontaminated by using water and detergent solution to clean the pump between well locations. All groundwater samples were stored on ice in a cooler and transported under chain of custody procedures to Alpha Analytical, which is a NYSDOH-certified environmental laboratory.

Five groundwater samples were collected for chemical analysis during this RI. Groundwater sample collection data as well as QA/QC samples are reported in Tables 3 and 4, respectively. Sampling logs with information on purging and sampling of groundwater monitoring wells is included in Appendix E. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Soil vapor implants were set at 5 feet below grade and were installed using direct push drilling methods. Each temporary implant was constructed with a 6-inch stainless steel screen connected to the inner tubing. The space surrounding the screen zone was filled with clean sand. The soil vapor probes were sealed above the sampling zone with bentonite slurry to prevent outdoor air infiltration and the remainder of the borehole backfilled with clean material. Sampling occurred for 2 hours. Samples were collected in Summa canisters that were certified by the laboratory. A tracer gas was used in accordance with NYSDOH protocols to serve as QA/QC device to verify the integrity of the soil vapor probe seal. All soil vapor samples were

transported under chain of custody procedures to Alpha Analytical, which is a NYSDOH-certified environmental laboratory.

Three soil vapor probes were installed and three soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 3. Soil vapor sampling logs are included in Appendix E. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Wendy Shen
Chemical Analytical Laboratory	Chemical analytical laboratory used in the RI is NYS ELAP certified and was Alpha Analytical
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007) • VOCs by EPA Method 8260C (rev. 2006) • SVOCs by EPA Method 8270D (rev. 2007) • Pesticides by EPA Method 8081B (rev. 2000) • PCBs by EPA Method 8082A (rev. 2000) Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007) • VOCs by EPA Method 8260C (rev. 2006) • SVOCs by EPA Method 8270D (rev. 2007) • Pesticides by EPA Method 8081B (rev. 2000) • PCBs by EPA Method 8082A (rev. 2000) Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 5 to 15. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix F, G and H, respectively.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The Bedrock Geologic Map of New York (Lower Hudson Sheet) identifies the lithology in the area of the Site as metamorphic rocks of sedimentary and volcanic origin, specifically Manhattan schist. The subsurface is characterized by bedrock that is exposed generally within one meter of the surface (Cadwell et al. 1989). Overburden soils are characterized as till deposited beneath glacial ice consisting of variable texture (boulders to silt), usually poorly sorted sand-rich diamict, with varying degrees of permeability and compaction measuring between 1-50 meters in thickness (Sirkin et al. 1988).

The Site is underlain by historic fill of approximately 10 feet of thickness followed by 20 feet of fine to medium grained sands mixed with interbedded layers of silt. Depth to bedrock is approximately at 55 feet below grade.

Hydrogeology

Groundwater occurs within the unconsolidated soils. A table of water level data for all monitoring wells is included in Table 2. The average depth to groundwater is 8 feet and the range in depth is 7 to 10 feet. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in Figure 6. Groundwater flow is from south to southwest.

5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 5 to 9. Figure 7 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375 Track 1 Soil Cleanup Objectives (SCOs).

Soil samples collected during the RI detected VOCs, SVOCs, Metals, PCBs, and Pesticides above the NYSDEC Track 1 SCOs. All exceedances were detected at depths up to 10 feet below grade and were found across the Site.

VOC exceedances were all detected between 6 and 10 feet below grade in SB-3, SB-4, and SB-6. No Track 1 SCO exceedances were detected in the shallow (0-2) or deep (two foot

interval below the depth of excavation) samples. Concentrations ranged from 6,800 to 61,000 micrograms per kilogram (µg/kg) for 1,2,4-trimethylbenzene (in SB-4, SB-6, and SB-3); 380 µg/kg for benzene (in SB-3); 1,100 to 8,200 µg/kg for ethylbenzene (in SB-6 and SB-3); 9,400 µg/kg for n-propylbenze (in SB-3) and 920 µg/kg for toluene (in SB-3).

SVOC exceedances were detected between 0 to 10 feet below grade in SB-1, SB-3, and SB-4. No Track 1 SCO exceedances were detected in the deep (two foot interval below the depth of excavation) samples. Concentrations ranged from 1,100 to 1,400 µg/kg for benzo(b)fluoranthene (in SB-4 and SB-3); 540 to 670 µg/kg for ideno[1,2,3-cd]pyrene (in SB-1, SB-3 and SB-4); 13,000 µg/kg for napththalene (in SB-3).

Metals exceedances were detected between 0 to 10 feet below grade in SB-1, SB-2, SB-4, and SB-5. No Track 1 SCO exceedances were detected in the deep (two foot interval below the depth of excavation) samples. Concentrations ranged from 31 to 190 milligrams per kilogram (mg/kg) for chromium (in SB-4 and SB-2); 58 to 150 mg/kg for copper (in SB-2 and SB-1); 65 to 100 mg/kg for lead (in SB-1 and SB-2); 0.32 mg/kg for mercury (in SB-2); 200 to 300 mg/kg for zinc (in SB-2, SB-5, and SB-1).

PCBs exceedances were detected between 0 to 2 feet below grade in SB-1, SB-4, and SB-6. Concentrations ranged from 189 in SC-1 to 805 mg/kg in SB-4.

Pesticides exceedances were detected between 0 to 10 feet below grade in SB-2, SB-4, and SB-6. Concentrations ranged from 4.76 to 10.3 µg/kg for 4,4'-DDE (in SB-4, SB-6, and SB-2); 7.38 to 8.96 µg/kg for 4,4'-DDT (in SB-6 and SB-4); 7.28 µg/kg for dieldrin (in SB-6).

Endpoint soil samples collected from each boring at the proposed redevelopment excavation depth of 30 feet did not detect any VOC, SVOC, or metal constituents above Track 1 Unrestricted Use Criteria standards.

Based on these results, the exceedances found across the Site are indicative of past site operations as a service station and the presence of historic fill.

5.3 Groundwater Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on

groundwater samples is included in Tables 10 to 14. Exceedances of applicable groundwater standards are shown.

Figure 8 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

Groundwater samples collected during the December 2013 sampling round and RI (February 2014) detected VOCs, SVOCs and Metals above the NYSDEC AWQSGVs (no pesticides or PCBs exceeded the AWQSGVs).

Onsite where soil remediation has taken place in the past, total VOC concentrations varied from non-detect in MW-2 to 712.2 micrograms per liter (µg/L) in temporary well SB-1. Immediately offsite, where soil remediation was not possible due to buried utilities, total VOC concentrations ranged from 727.8 µg/L in MW-7 to 5,909 µg/L in MW-5. VOCs exceedances from samples collected during this RI were consistent with previous groundwater sampling, which indicate the presence of petroleum impacts associated with the former service station, however the trend has been declining over the years. Natural attenuation of residual contamination has been demonstrated to be a significant factor in reducing BTEX concentrations over the past 5 years. Over the last five years, onsite well MW-2 has had BTEX decline from 183 µg/L to non-detect and MW-3 declined from 9,407 µg/L to 51.6 µg/L. Offsite, well MW-5 has had BTEX decline from 5,970 µg/L to 2,591 µg/L and MW-7 has had BTEX decline from 11,198 µg/L to 378.8 µg/L. Benzene AWQSGV exceedances ranged from 7.1 to 380 µg/L (in MW-3, MW-7, SB-1/TP-1, and MW-5), toluene AWQSGV exceedances ranged from 6.8 to 29 µg/L (in MW-7 and MW-5), ethylbenzene AWQSGV exceedances ranged from 12 to 14,000 µg/L (in MW-3, SB-1/TP-1, MW-7, and MW-5), m+p xylene AWQSGV exceedances ranged from 8.5 to 720 µg/L (in MW-3, MW-7, and MW-5), and o-xylene concentrations ranged from 22 to 62 µg/L (in MW-7, MW-3, and MW-5). Several other VOCs including 1,2,4,5-tetramethylbenzene (maximum [max.] concentration of 110 µg/L in MW-5, 1,2,4-trimethylbenzene (max. concentration of 1,800 µg/L), 1,3,5-trimethylbenzene (max. of 450 µg/L), isopropylbenzene (max. of 98 µg/L), MTBE (max. of 26 µg/L), naphthalene (max. of 650 µg/L), n-butylbenzene (max. of 32 µg/L), n-propylbenzene (max. of 330 µg/L), p-isopropyltoluene (max. of µg/L), and sec-butylbenzene (max. of 15 µg/L) were also detected at concentrations exceeding the AWQSGVs.

SVOCs exceedances were detected in SB-1/TP-1, MW-5 and MW-7 and included chrysene (0.11 µg/L in SB-1/TP-1), naphthalene (14 µg/L in MW-7 and 280 µg/L in MW-5), and pentachlorophenol (9.3 µg/L in MW-5).

Metals exceedances were detected in SB-1/TP-1, MW-2, MW-3, MW-5, and MW-7 for iron, lead, manganese, and sodium (both total and dissolved analysis). Dissolved metals exceeding AWQSGV included iron (max. of 35,100 µg/L in MW-5), manganese (max. of 2234 µg/L in MW-5) and sodium (max. of 749,000 µg/L in MW-2).

5.4 Soil Vapor Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 15.

Figure 9 shows the location and posts the values for soil vapor samples with detected concentrations.

VOCs were found in all three soil vapor points (SV-1, SV-2, and SV-3) at 4 to 5 feet below grade. The compounds detected were primarily hydrocarbons related to gasoline. The compounds detected in all three samples included: trimethylbenzene, cyclohexane, ethylbenzene, heptane, isooctane, xylenes, MTBE, n-hexane, and toluene ranging from 9.86 µg/m^3 (micrograms per cubic meter) for o-xylene in SV-3 to 9,250 µg/m^3 for isooctane in SV-2. Tetrachloroethene was detected at 15.6 µg/m^3 in one sample, SV-1. Because this compound was never used or stored on site, it is assumed to have originated from an offsite source.

The planned future use of the Site will include a vapor barrier for water proofing purposes. In addition, the soil excavation down to 30 feet below grade will result in the removal of all potential source material that could generate soil vapor.

5.5 Prior Activity

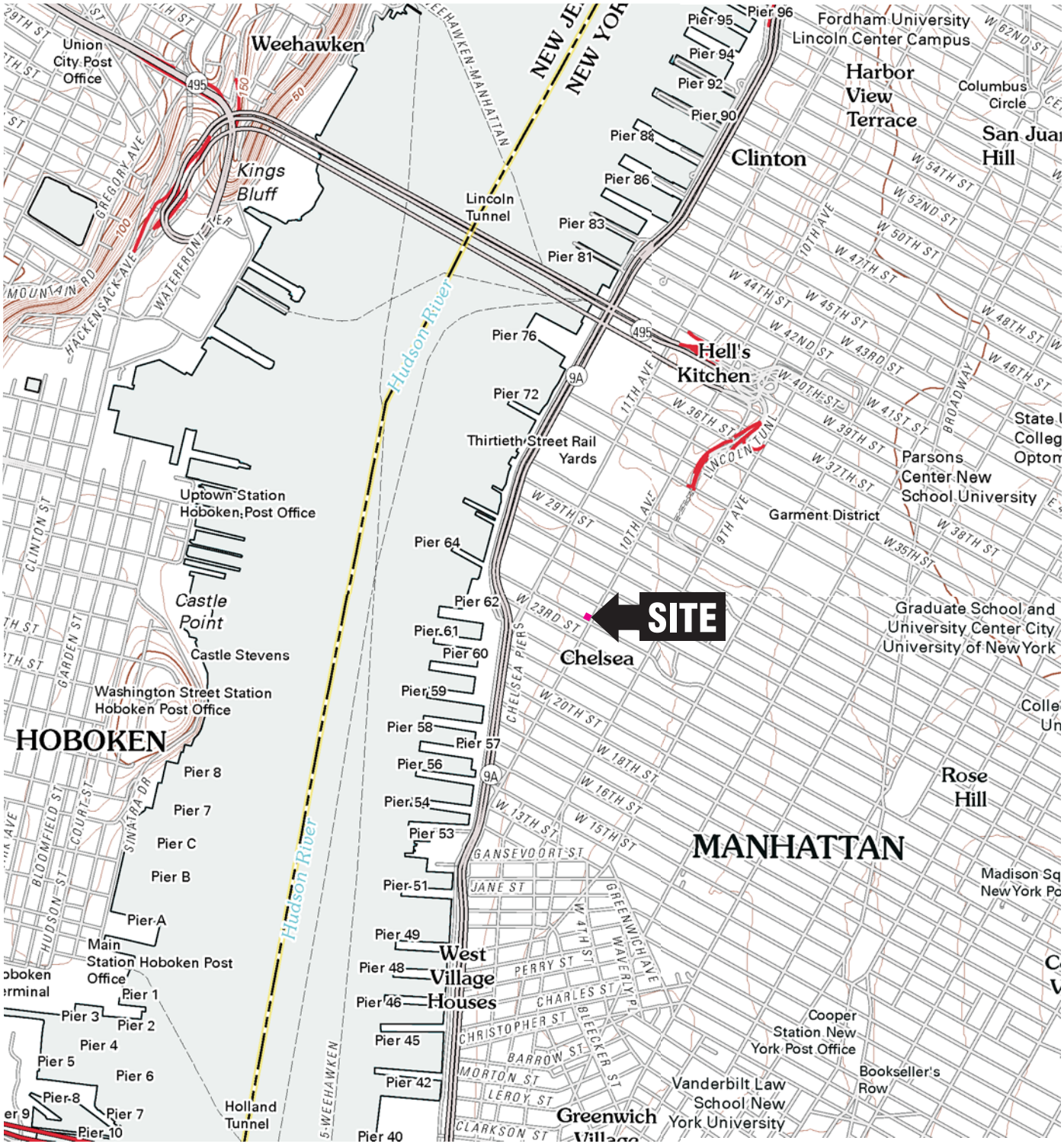
Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

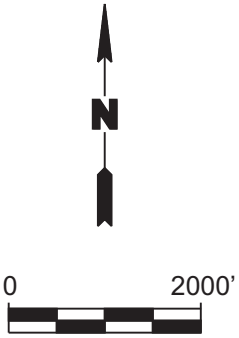
FIGURES

1. Site Map
2. Site Location Map
3. Redevelopment Plan
4. Surrounding Land Use and Sensitive Receptors
5. Location of Soil Borings, Wells, and Soil Vapor Samples
6. Groundwater Flow Map
7. Map of Soil Chemistry Results
8. Map of Groundwater Chemistry Results
9. Map of Soil Vapor Chemistry Results



QUADRANGLE LOCATION

SOURCE:
USGS; Brooklyn, NY (2010),
Central Park, NY-NJ (2011),
Weehawken, NJ-NY (2011),
and Jersey City, NJ-NY (2011)
7.5 Minute Topographic Quadrangles



Title:

SITE LOCATION MAP

FORMER GETTY STATION
239 10TH AVENUE
NEW YORK, NEW YORK

Prepared for:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: W.S.	Date: 28FEB14	FIGURE
Prepared by: J.A.D.	Scale: AS SHOWN	1
Project Mgr.: W.S.	Project No.: 2355.0001Y000	
File: 2355.0001Y111.04.CDR		

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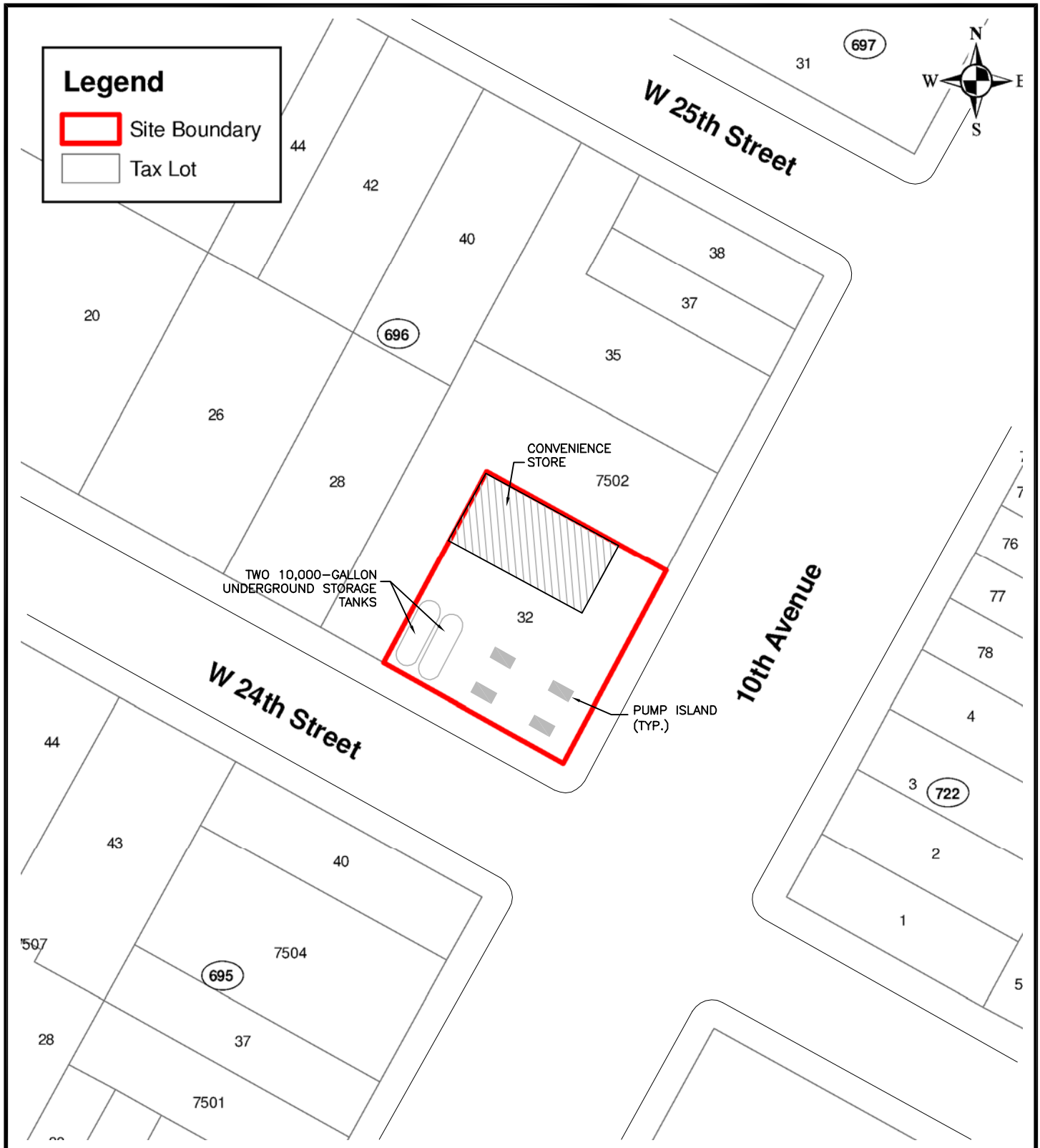

Title:

SITE PLAN

FORMER GETTY STATION
239 10TH AVENUE
NEW YORK, NEW YORK

Prepared For:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: W.S.	Date: 28FEB14	FIGURE
Prepared by: J.A.D.	Scale: AS SHOWN	2
Project Mgr: W.S.	Project: 2355.0001Y	
File: 2355.0001Y111.05.DWG		

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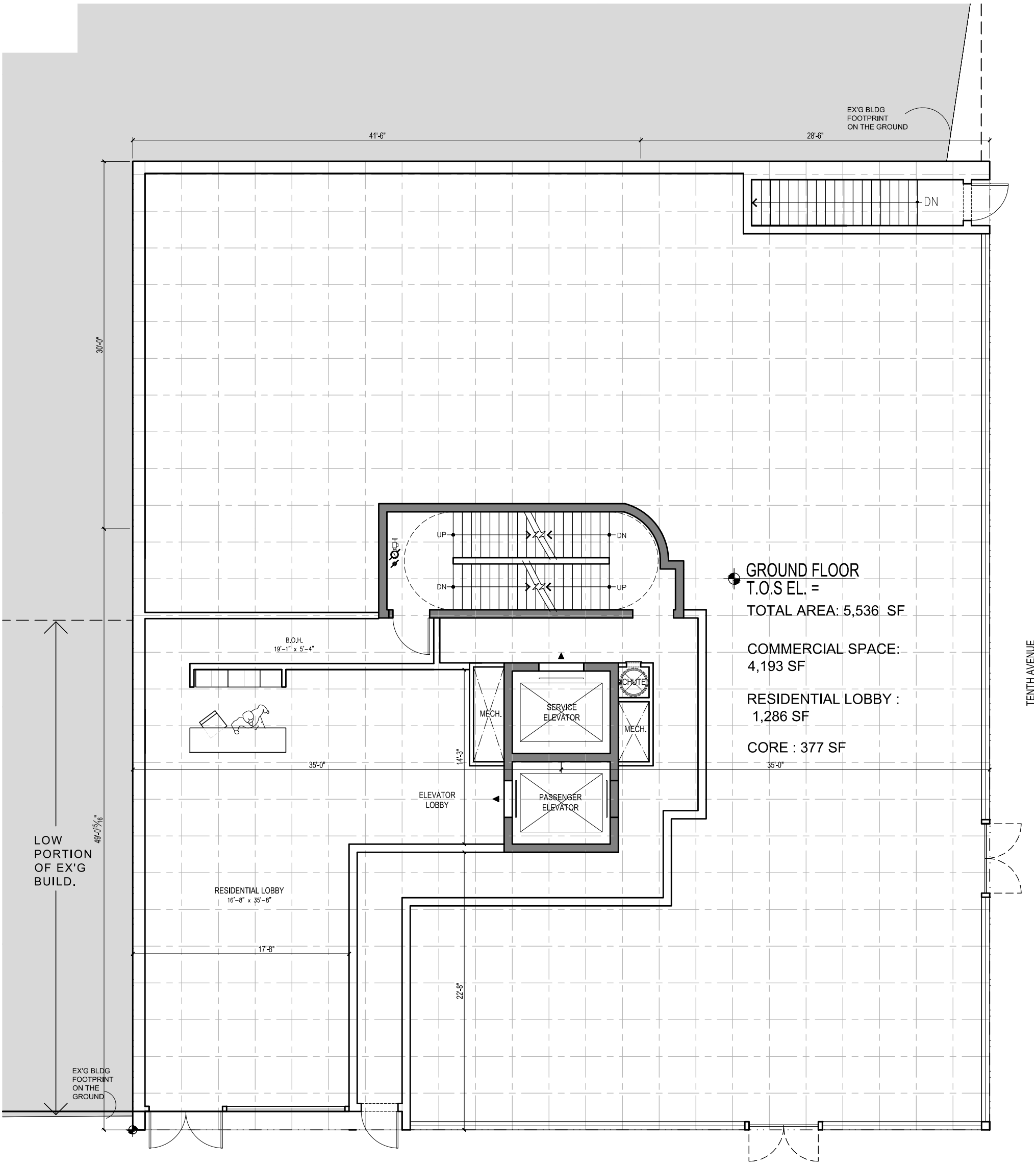


GROUND FLOOR
T.O.S EL. =

TOTAL AREA: 5,536 SF

COMMERCIAL SPACE:
4,193 SF

RESIDENTIAL LOBBY :
1,286 SF

CORE : 377 SF

1ST FLOOR PLAN

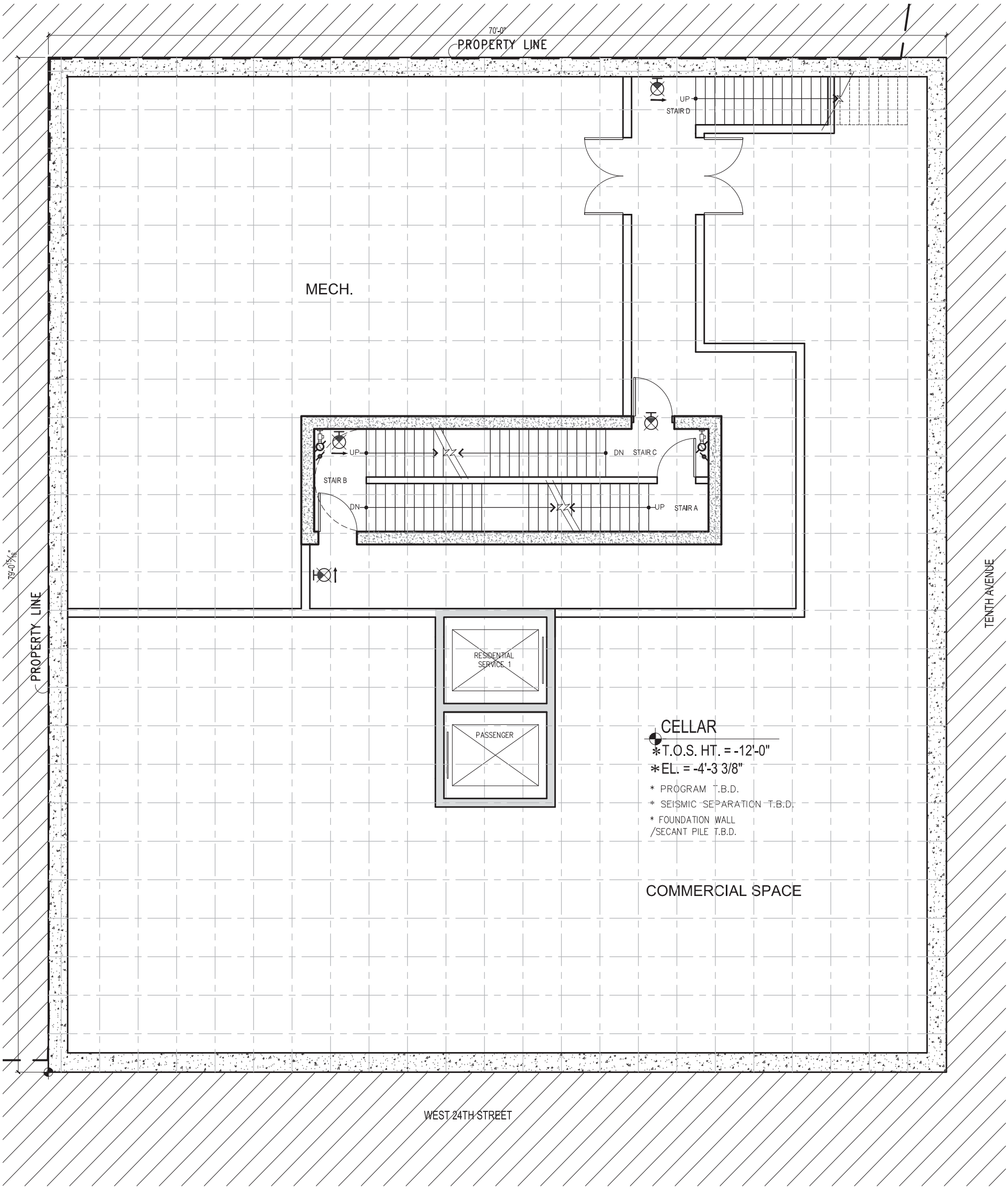
239 10TH AVENUE

SCALE: 1/8" = 1'-0"

PRELIMINARY
NOT FOR DISTRIBUTION

01/09/2014

FIGURE 3. REDEVELOPMENT PLAN



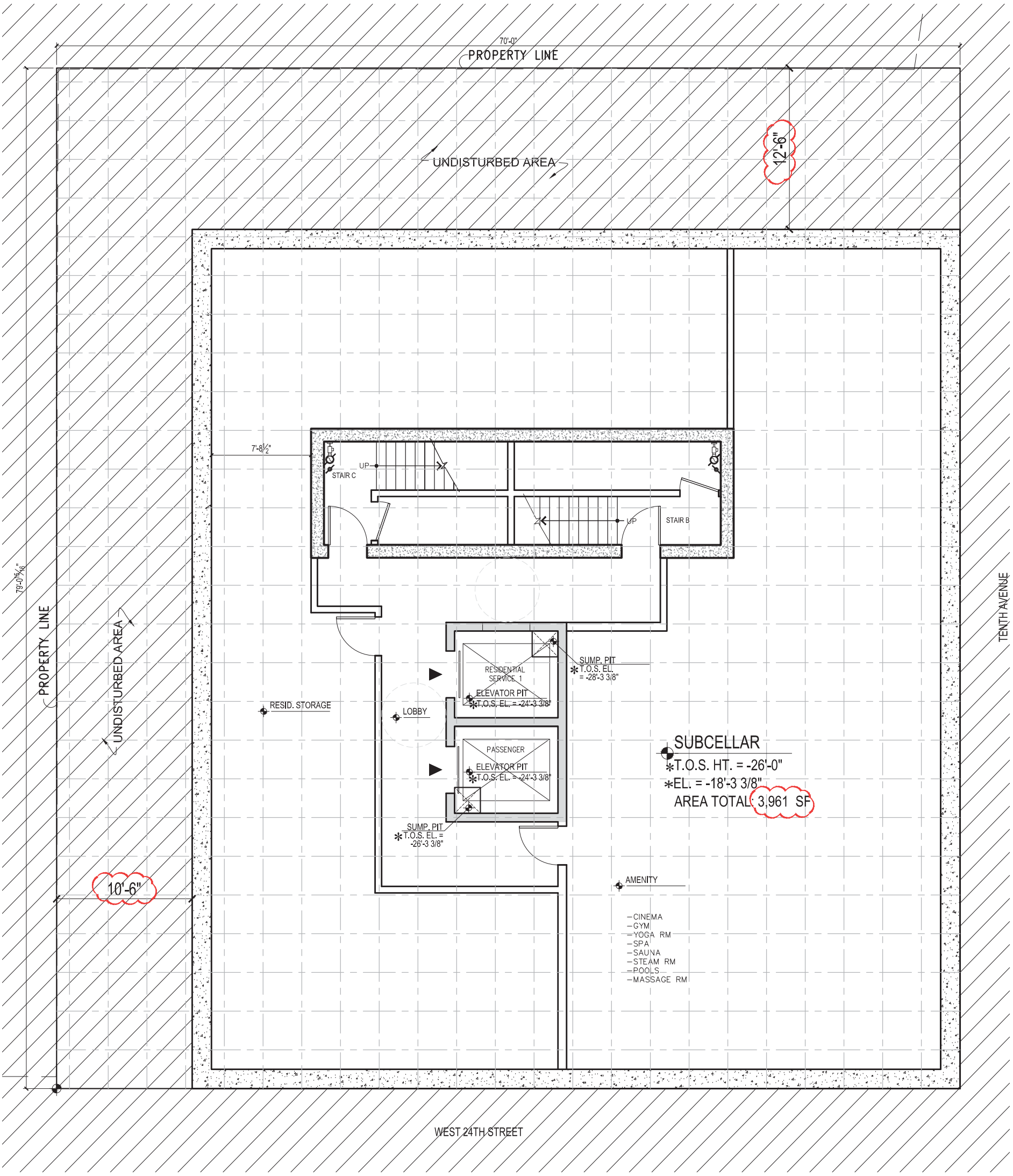
* NOTES:
1. POSITION AND SIZE OF STAIRCASE AND ELEVATOR CORE TO BE DETERMINED
2. T.O.S. ELEVATION AND HEIGHT TO BE V.I.F. AND SEE BUILDING SECTION DIAGRAM

WORK IN PROGRESS
NOT FOR CONSTRUCTION

CELLAR
239 10TH AVENUE
SCALE: 1/8" = 1'-0"

01/20/2014

FIGURE 3. REDEVELOPMENT PLAN



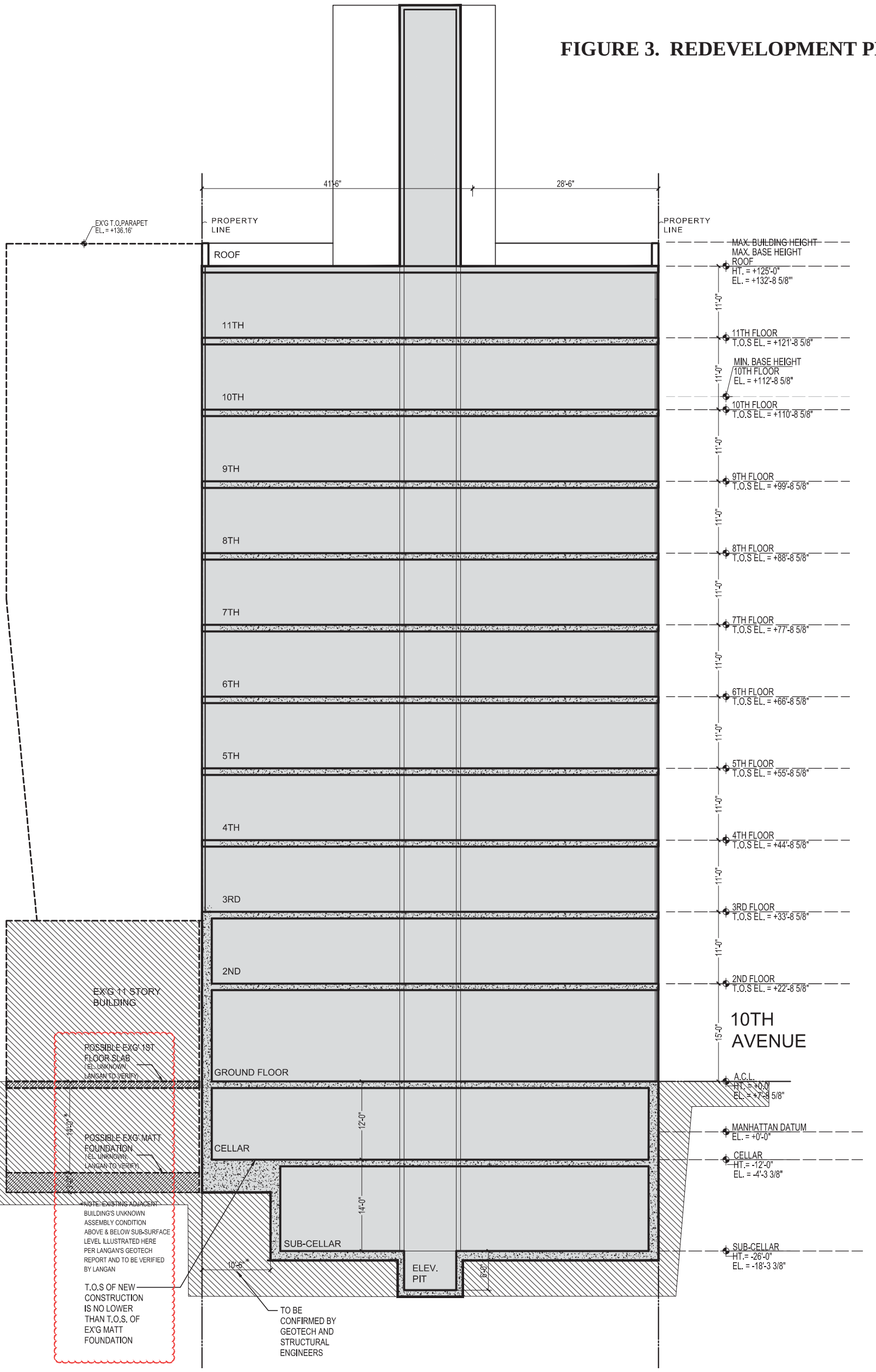
* NOTES:
1. POSITION AND SIZE OF STAIRCASE AND ELEVATOR CORE TO BE DETERMINED
2. T.O.S. ELEVATION AND HEIGHT TO BE V.I.F. AND SEE BUILDING SECTION DIAGRAM

SUBCELLAR
239 10TH AVENUE
SCALE: 1/8" = 1'-0"

WORK IN PROGRESS
NOT FOR CONSTRUCTION

01/20/2014

FIGURE 3. REDEVELOPMENT PLAN



BUILDING SECTION DIAGRAM - LOOKING NORTH (1) - 14FT

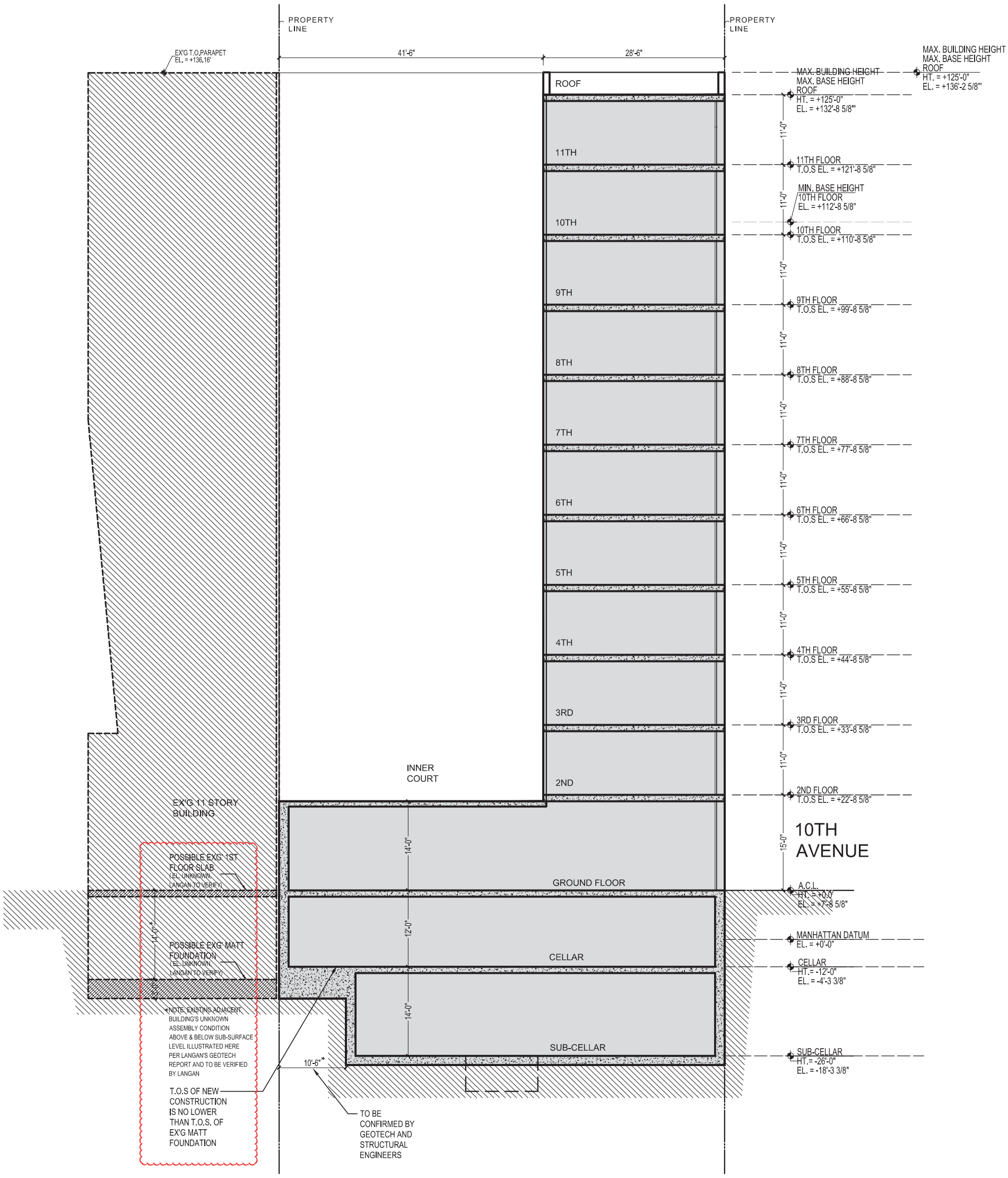
239 10TH AVENUE

SCALE: 1/16" = 1'-0"

WORK IN PROGRESS
NOT FOR CONSTRUCTION

01/22/2014

FIGURE 3. REDEVELOPMENT PLAN



BUILDING SECTION DIAGRAM - LOOKING NORTH (2) - 14FT

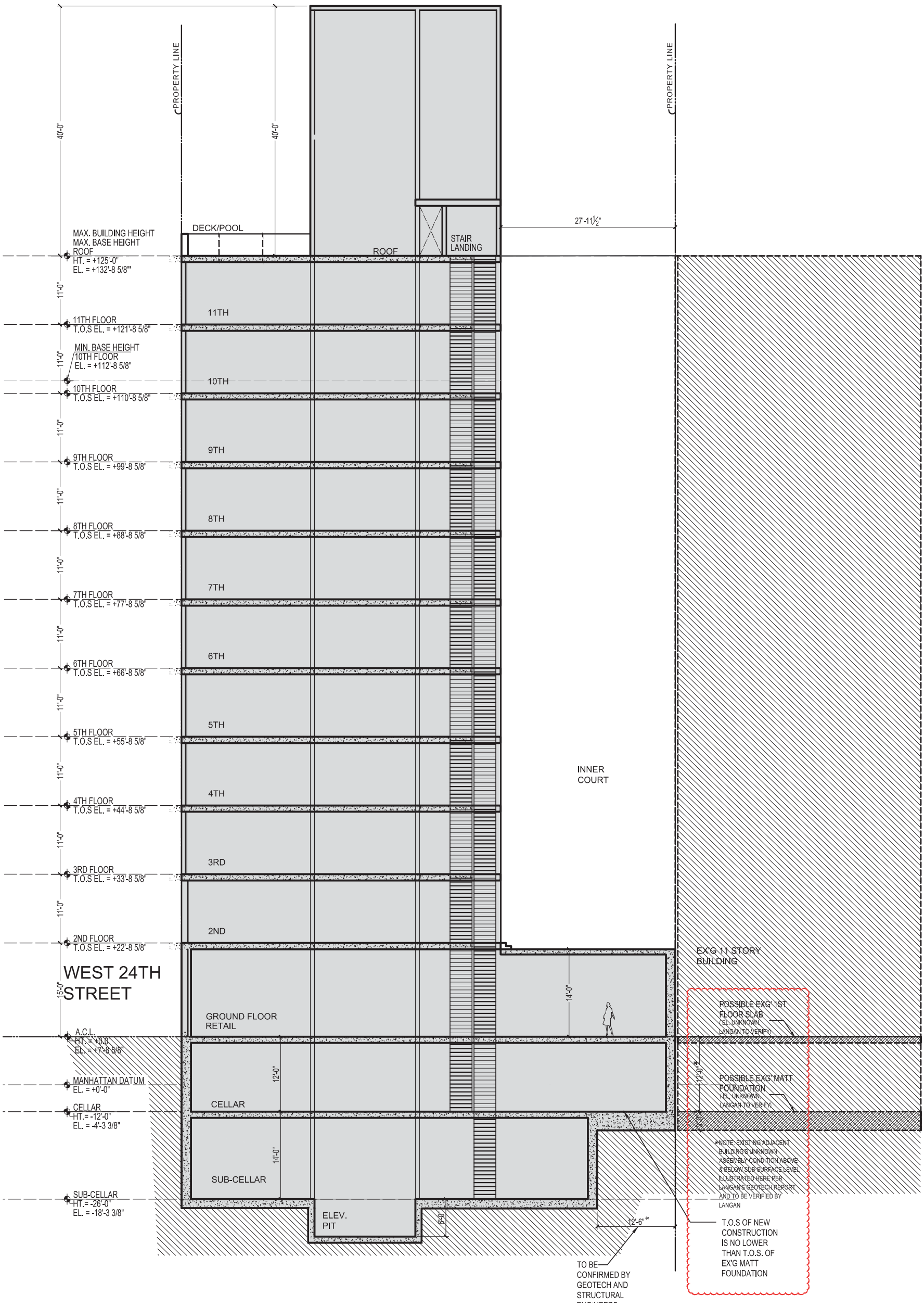
239 10TH AVENUE

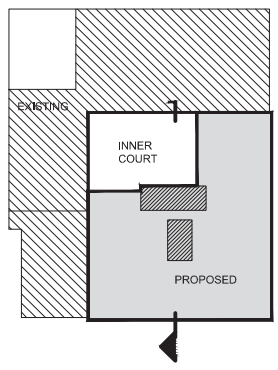
SCALE: 1/16" = 1'-0"

WORK IN PROGRESS
NOT FOR CONSTRUCTION

01/22/2014

FIGURE 3. REDEVELOPMENT PLAN





BUILDING SECTION DIAGRAM - LOOKING WEST (1) - 14FT

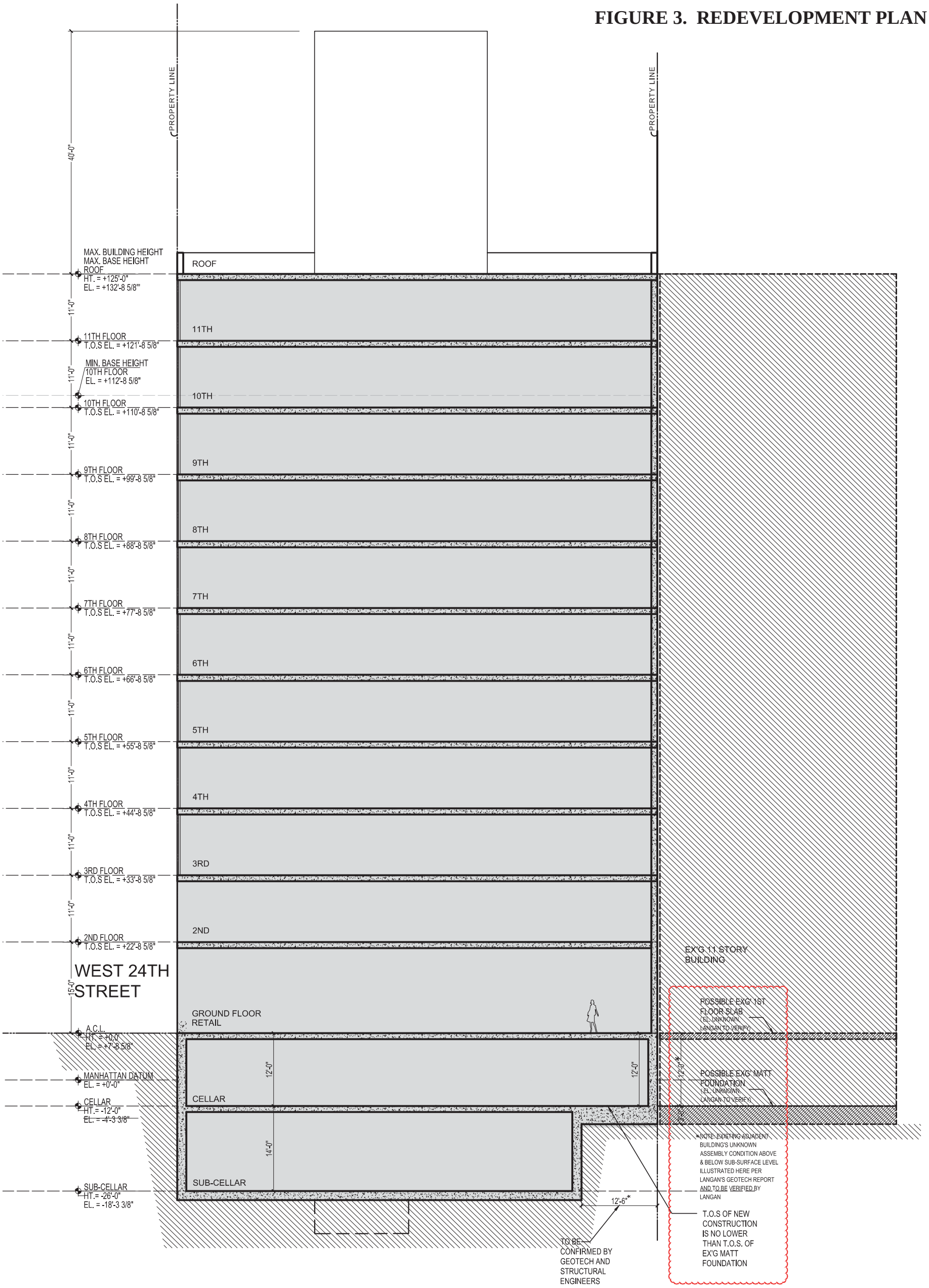
239 10TH AVENUE

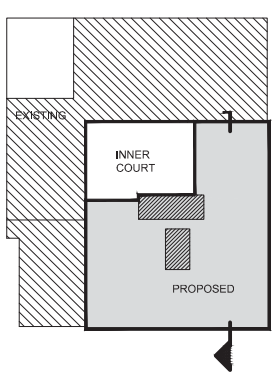
SCALE: 1/16" = 1'-0"

WORK IN PROGRESS
NOT FOR CONSTRUCTION

01/22/2014

FIGURE 3. REDEVELOPMENT PLAN





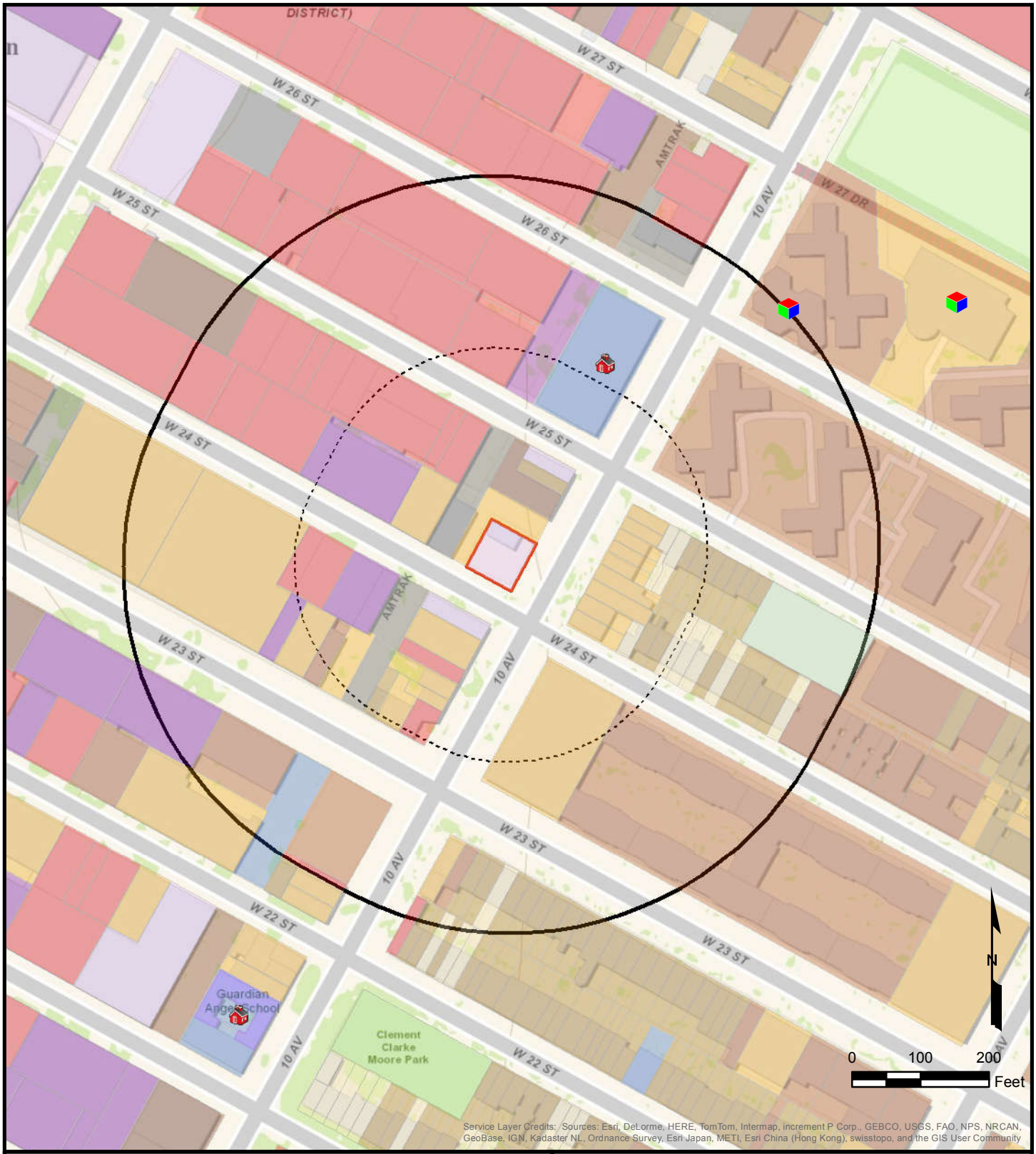
BUILDING SECTION DIAGRAM - LOOKING WEST (2) - 14FT

239 10TH AVENUE

SCALE: 1/16" = 1'-0"

WORK IN PROGRESS
NOT FOR CONSTRUCTION

01/22/2014



Service Layer Credits: Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Legend

Site | 250 ft Buffer | 500 ft Buffer | School | Day Care

Land Use

- One & Two Family Buildings
- Multi-Family Elevator Buildings
- Multi-Family Walk-Up Buildings
- Mixed Residential & Commercial Buildings
- Commercial & Office Buildings
- Industrial & Manufacturing
- Transportation & Utility
- Public Facilities & Institutions
- Open Space & Outdoor Recreation
- Parking Facilities
- Vacant Land

Source: NYC Departement of City Planning; mapPLUTO Release 13v2

Title:

SURROUNDING LAND USE AND SENSITIVE RECEPTORS

FORMER GETTY STATION
239 10TH AVENUE
NEW YORK, NEW YORK

Prepared For:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: B.P.	Date: 06MAR2014	FIGURE 4
Prepared by: B.P.	Scale: 1 in = 200 ft	
Project Mgr: W.S.	Project:: 2355.0001Y	
File No: 2355.0001Y111.101		

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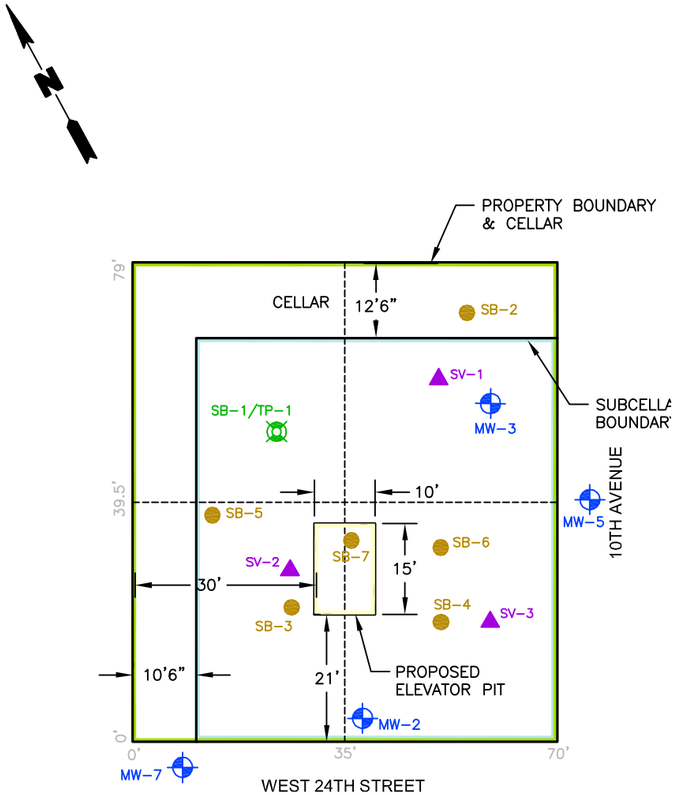
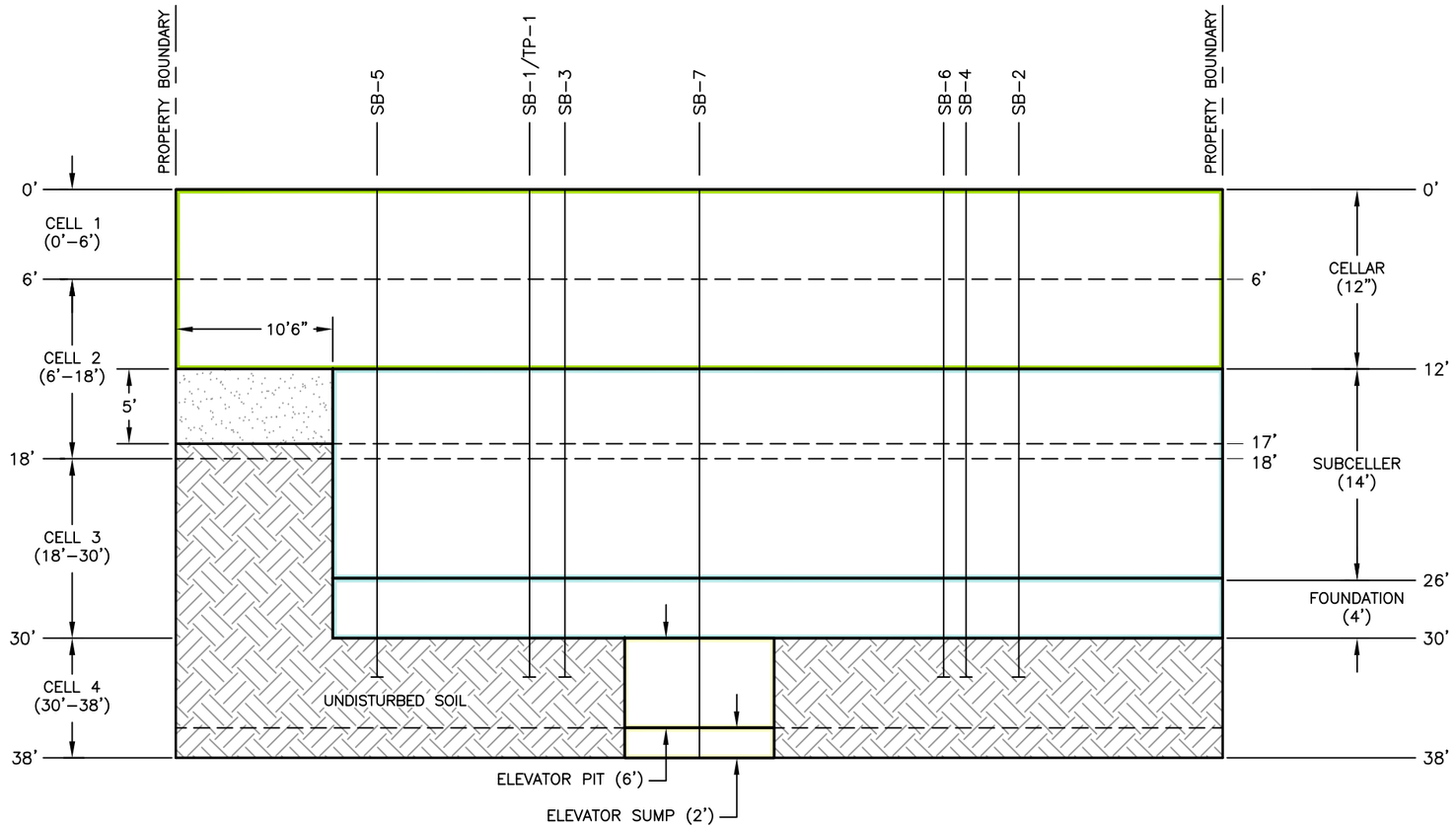


PLAN VIEW
SCALE: 1" = 25'



CROSS SECTION
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

LEGEND

- SB-1/TP-1 — SOIL BORING / TEMPORARY WELL LOCATION AND DESIGNATION
- SB-2 — SOIL BORING LOCATION AND DESIGNATION
- SV-1 — SOIL VAPOR MONITORING POINT LOCATION AND DESIGNATION
- MW-2 — EXISTING MONITORING WELL LOCATION AND DESIGNATION

Title:
LOCATION OF SOIL BORINGS, MONITORING WELLS AND SOIL VAPOR SAMPLES

FORMER GETTY STATION
239 10TH AVENUE
NEW YORK, NEW YORK

Prepared For:
VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: W.S.	Date: 19FEB14	FIGURE
Prepared by: J.A.D.	Scale: NOT TO SCALE	5
Project Mgr: W.S.	Project: 2355.0001Y000	
File: 2355.0001Y111.01.DWG		

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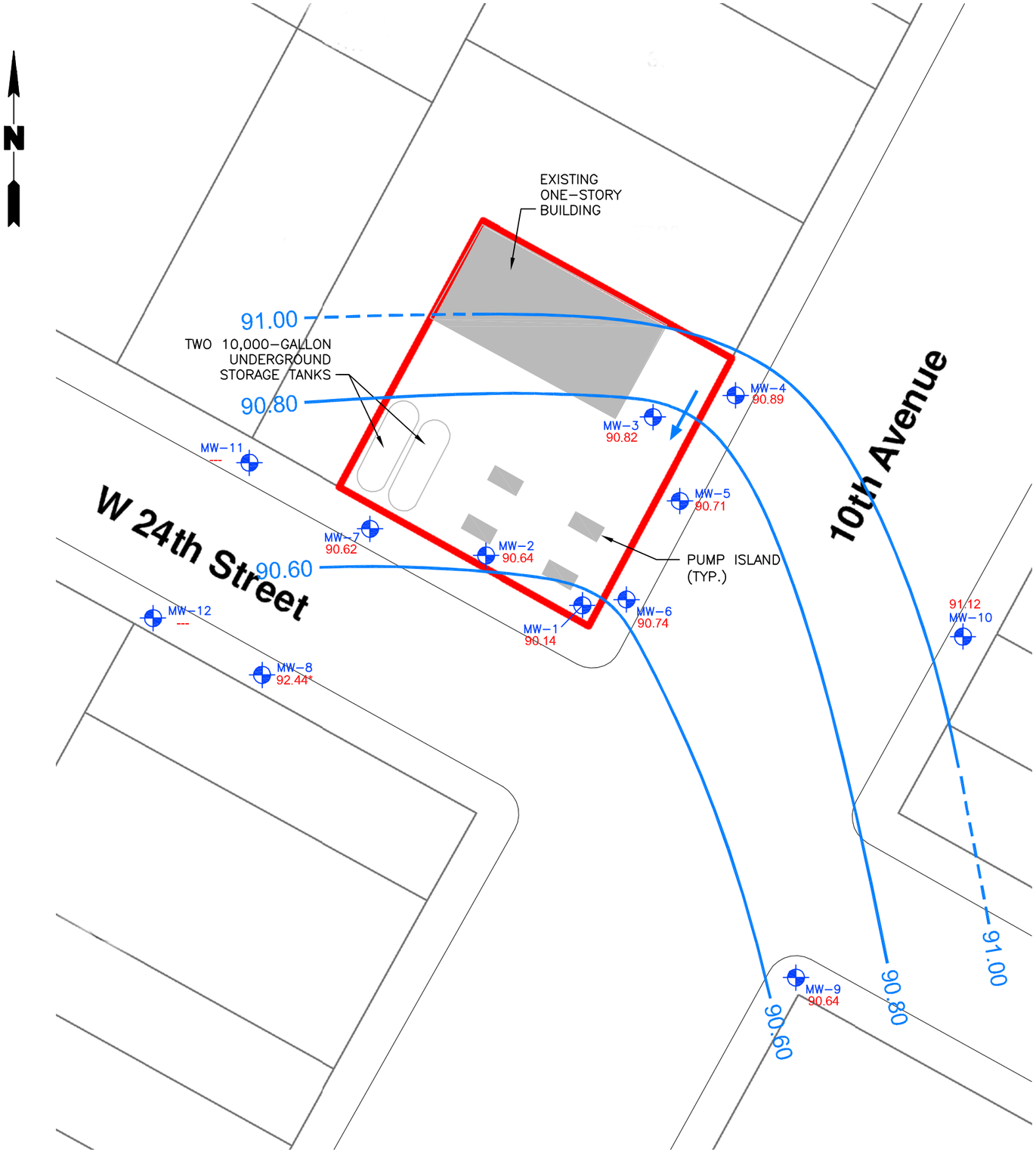

LEGEND

MW-1	EXISTING MONITORING WELL LOCATION AND DESIGNATION
90.89	GROUNDWATER ELEVATION (FT AMSL)
92.44*	DATA NOT USED FOR CONTOURING
91.00	LINE OF EQUAL GROUNDWATER ELEVATION (FT AMSL) (DASHED WHERE INFERRED)
	INFERRED GROUNDWATER FLOW DIRECTION
	PROPERTY BOUNDARY

NOTE

GROUNDWATER DATA COLLECTED IN DECEMBER 2013.

Title:

GROUNDWATER FLOW MAP

FORMER GETTY STATION
239 10TH AVENUE
NEW YORK, NEW YORK

Prepared For:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.W.	Date: 19FEB14	FIGURE
Prepared by: J.A.D.	Scale: NOT TO SCALE	6
Project Mgr: W.S.	Project: 2355.0001Y000	
File: 2355.0001Y111.02.DWG		

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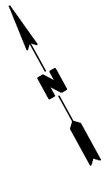
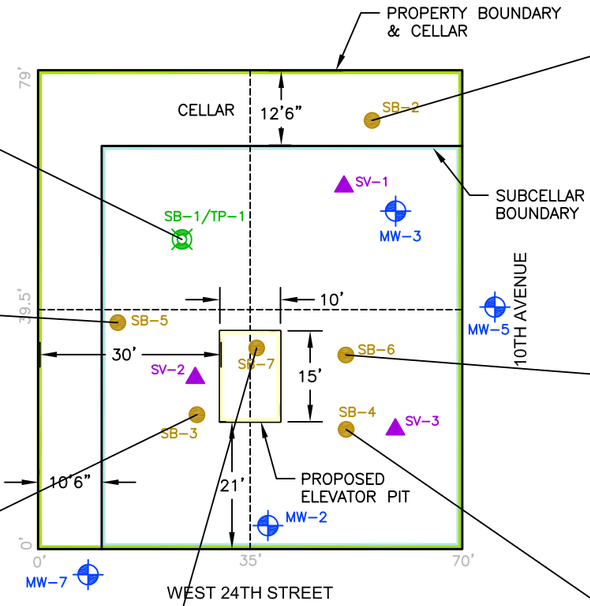


SB-1	2/7/2014	2/7/2014
Sample Interval (ft bls)	7-10	30-32
VOCs	NE	ND
SVOCs		ND
Indeno[1,2,3-cd]pyrene	**540 J**	ND
Metals		NE
Copper	**150**	NE
Lead	**65**	NE
Zinc	**300**	NE
PCBs (total)	**188.8**	NA
Pesticides	NE	NA

SB-5	2/6/2014	2/7/2014
Sample Interval (ft bls)	7-10	30-32
VOCs	NE	ND
SVOCs	NE	ND
Metals		NE
Zinc	**230**	NE
PCBs (total)	NE	NA
Pesticides	NE	NA

SB-3	2/6/2014	2/7/2014
Sample Interval (ft bls)	7-10	30-32
VOCs		NE
1,2,4-Trimethylbenzene	**61000**	ND
Benzene	**380**	ND
Ethylbenzene	**8200**	ND
n-Propylbenzene	**9400**	ND
Toluene	**920**	ND
SVOCs		ND
Benzo[b]fluoranthene	**1400**	ND
Indeno[1,2,3-cd]pyrene	**540 J**	ND
Naphthalene	**13000**	ND
Metals	NE	NE
PCBs (total)	NE	NA
Pesticides	ND	NA



SB-7	2/7/2014
Sample Interval (ft bls)	36-38
VOCs	ND
SVOCs	ND
Metals	NE
PCBs (total)	NA
Pesticides	NA

SB-2	2/6/2014	2/7/2014	2/7/2014
Sample Interval (ft bls)	0-2	7-10	30-32
VOCs	NE	NE	ND
SVOCs	NE	NE	ND
Metals			NE
Chromium	**190**	NE	NE
Copper	**68**	**58**	NE
Lead	**100**	**100**	NE
Mercury	**0.32**	NE	ND
Zinc	**200**	**120**	NE
PCBs (total)	NE	NE	NA
Pesticides			NA
4,4'-DDE	ND	**10.3 J**	NA

SB-6	2/4/2014	2/10/2014	2/7/2014
Sample Interval (ft bls)	0-2	7-10	30-32
VOCs	NE		ND
1,2,4-Trimethylbenzene	ND	**10000**	ND
Ethylbenzene	ND	**1100**	ND
SVOCs	NE	NE	ND
Metals	NE	NE	NE
PCBs (total)	**376**	NE	NA
Pesticides		NE	NA
4,4'-DDE	**4.6**	ND	NA
4,4'-DDT	**6.66 P**	ND	NA
Dieldrin	**5.5**	ND	NA

SB-4	2/4/2014	2/10/2014	2/7/2014
Sample Interval (ft bls)	0-2	6-8.5	30-32
VOCs	NE		ND
1,2,4-Trimethylbenzene	ND	**6800**	ND
SVOCs			ND
Benzo[b]fluoranthene	**1100**	**1400**	ND
Indeno[1,2,3-cd]pyrene	**670**	**540 J**	ND
Naphthalene	ND	**13000**	ND
Metals		NE	NE
Chromium	**31**	NE	NE
PCBs (total)	**805**	NE	NA
Pesticides		NE	NA
4,4'-DDE	**4.76 P**	ND	NA
4,4'-DDT	**7.38 P**	ND	NA

LEGEND

SB-1/TP-1 — SOIL BORING / TEMPORARY WELL LOCATION AND DESIGNATION

SB-2 — SOIL BORING LOCATION AND DESIGNATION

SV-1 — SOIL VAPOR MONITORING POINT LOCATION AND DESIGNATION

MW-2 — EXISTING MONITORING WELL LOCATION AND DESIGNATION

NOTE

ONLY UNRESTRICTED USE EXCEEDANCES SHOWN.

Parameter	Standard*
VOC (µg/kg)	
1,2,4-Trimethylbenzene	3600
Benzene	60
Ethylbenzene	1000
n-Propylbenzene	3900
Toluene	700
SVOC (µg/kg)	
Benzo[b]fluoranthene	1000
Indeno[1,2,3-cd]pyrene	500
Naphthalene	12000
Metals (mg/kg)	
Chromium	30
Copper	50
Lead	63
Mercury	0.18
Zinc	109
Total PCBs (µg/kg)	100
Pesticides (µg/kg)	
4,4'-DDE	3.3
4,4'-DDT	3.3
Dieldrin	5

µg/kg – MICROGRAM PER KILOGRAM

mg/kg – MILLIGRAM PER KILOGRAM

* – NYSDEC PART 375 UNRESTRICTED USE CRITERIA

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

J – ESTIMATED VALUE

VOCs – VOLATILE ORGANIC COMPOUNDS

SVOCs – SEMI VOLATILE ORGANIC COMPOUNDS

ND – NOT DETECTED

NE – NO EXCEEDANCES

NA – NOT ANALYZED

FT BLS – FEET BELOW LAND SURFACE

25' 0 25'

Title:

SOIL CHEMISTRY RESULTS

FORMER GETTY STATION
239 10TH AVENUE
NEW YORK, NEW YORK

Prepared For:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.W.	Date: 12MAR14	FIGURE 7
Prepared by: J.A.D.	Scale: AS SHOWN	
Project Mgr: W.S.	Project: 2355.0001Y000	
File: 2355.0001Y111.03.DWG		

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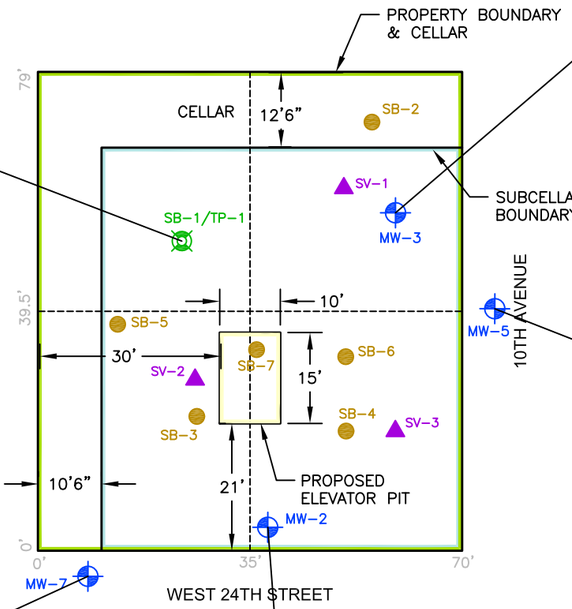
SB-1/TP-1	2/7/2014
VOCs	
Benzene	210
Ethylbenzene	20 J
Isopropylbenzene	98
n-Butylbenzene	32
n-Propylbenzene	330
p-Isopropyltoluene	7.2 J
sec-Butylbenzene	15 J
SVOCs	
Chrysene	0.11 J
Metals	
Iron	12300
Manganese	2158
Sodium	370000

MW-3	12/18/2013	2/7/2014
VOCs		
Benzene	7.1	NA
Ethylbenzene	12	NA
m+p-Xylene	8.5	NA
o-Xylene	23	NA
1,2,4-Trimethylbenzene	22	NA
Isopropylbenzene	5.6	NA
n-Propylbenzene	8.7	NA
Metals		
Iron	NA	2940
Manganese	NA	719.4
Sodium	NA	409000



MW-5	12/16/2013	2/7/2014
VOCs		
Benzene	380	NA
Toluene	29 J	NA
Ethylbenzene	1400	NA
m+p-Xylene	720	NA
o-Xylene	62	NA
1,2,4,5-Tetramethylbenzene	110	NA
1,2,4-Trimethylbenzene	1800	NA
1,3,5-Trimethylbenzene	450	NA
Isopropylbenzene	88	NA
Naphthalene	650	NA
n-Butylbenzene	20 J	NA
n-Propylbenzene	200	NA
SVOCs		
Naphthalene	650	280
Pentachlorophenol	NA	9.3 J
Metals		
Iron	NA	59900
Lead	NA	49.54
Manganese	NA	3354
Sodium	NA	549000

MW-7	12/18/2013	2/7/2014
VOCs		
Benzene	100	NA
Toluene	6.8	NA
Ethylbenzene	130	NA
m+p-Xylene	120	NA
o-Xylene	22	NA
1,2,4,5-Tetramethylbenzene	65	NA
1,2,4-Trimethylbenzene	73	NA
Isopropylbenzene	50	NA
MTBE	26	NA
Naphthalene	42	NA
n-Butylbenzene	5.8	NA
n-Propylbenzene	81	NA
sec-Butylbenzene	6.2	NA
SVOCs		
Naphthalene	42	14
Metals		
Iron	NA	9890
Manganese	NA	4650
Sodium	NA	421000

MW-2	12/18/2013	2/7/2014
Metals		
Iron	NA	4110
Manganese	NA	2238
Sodium	NA	749000

LEGEND

- SB-1/TP-1 — SOIL BORING / TEMPORARY WELL LOCATION AND DESIGNATION
- SB-2 — SOIL BORING LOCATION AND DESIGNATION
- SV-1 — SOIL VAPOR MONITORING POINT LOCATION AND DESIGNATION
- MW-2 — EXISTING MONITORING WELL LOCATION AND DESIGNATION

NOTE

ONLY EXCEEDANCES SHOWN.

Parameter (ug/L)	Standard*
VOCs	
Benzene	1
Toluene	5
Ethylbenzene	5
m+p-Xylene	5
o-Xylene	5
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
Isopropylbenzene	5
MTBE	10
Naphthalene	10
n-Butylbenzene	5
n-Propylbenzene	5
p-Isopropyltoluene	5
sec-Butylbenzene	5
SVOCs	
Chrysene	0.002
Naphthalene	10
Pentachlorophenol	1
Metals	
Iron	300
Lead	25
Manganese	300
Sodium	20000

µg/L – MICROGRAM PER LITER

* – NYSDEC AWQSGVs

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AWQSGVs – AMBIENT WATER-QUALITY STANDARDS AND GROUNDWATER VALUES

J – ESTIMATED VALUE

VOCs – VOLATILE ORGANIC COMPOUNDS

SVOCs – SEMI VOLATILE ORGANIC COMPOUNDS

NA – NOT ANALYZED

25' 0 25'

Title:

GROUNDWATER CHEMISTRY RESULTS

FORMER GETTY STATION
239 10TH AVENUE
NEW YORK, NEW YORK

Prepared For:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.W.	Date: 12MAR14	FIGURE
Prepared by: J.A.D.	Scale: AS SHOWN	8
Project Mgr: W.S.	Project: 2355.0001Y000	
File: 2355.0001Y111.03.DWG		

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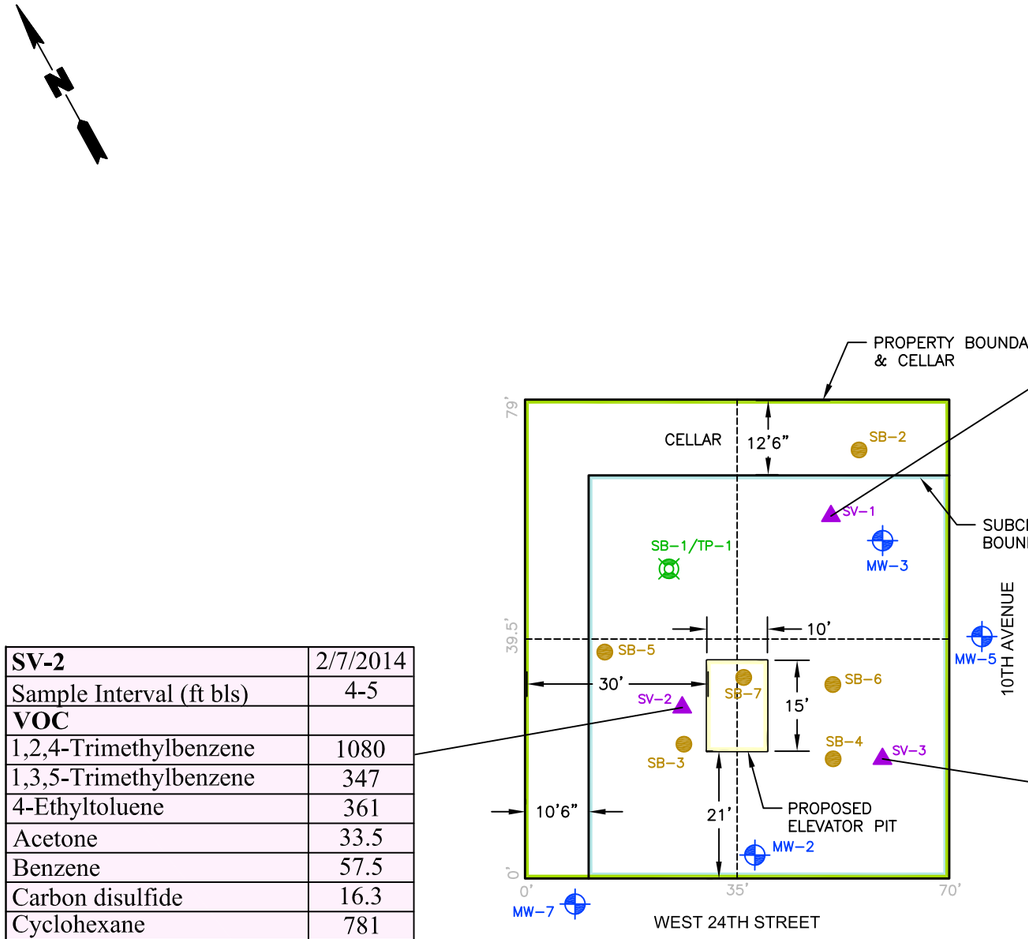

SV-1	2/7/2014
Sample Interval (ft bls)	4-5
VOC	
1,2,4-Trimethylbenzene	10.1
1,3,5-Trimethylbenzene	12.9
Carbon disulfide	11.1
Cyclohexane	72.3
Ethylbenzene	15.8
Heptane	459
Isooctane	2480
m+p-Xylene	55.6
n-Hexane	226
o-Xylene	22.6
Tetrachloroethene	15.6
Toluene	22.8
Trichlorofluoromethane	12.4

SV-2	2/7/2014
Sample Interval (ft bls)	4-5
VOC	
1,2,4-Trimethylbenzene	1080
1,3,5-Trimethylbenzene	347
4-Ethyltoluene	361
Acetone	33.5
Benzene	57.5
Carbon disulfide	16.3
Cyclohexane	781
Ethylbenzene	912
Heptane	1890
Isooctane	9250
m+p-Xylene	3860
MTBE	246
n-Hexane	4620
o-Xylene	1020
Toluene	535

SV-3	2/7/2014
Sample Interval (ft bls)	4-5
VOC	
1,2,4-Trimethylbenzene	31.3
1,3,5-Trimethylbenzene	23.4
4-Ethyltoluene	10.7
Acetone	119
Benzene	55.3
Cyclohexane	423
Heptane	762
Isooctane	8780
m+p-Xylene	24.7
MTBE	555
n-Hexane	1180
o-Xylene	9.86
Toluene	22.2

LEGEND

- SB-1/TP-1 — SOIL BORING / TEMPORARY WELL LOCATION AND DESIGNATION
- SB-2 — SOIL BORING LOCATION AND DESIGNATION
- SV-1 — SOIL VAPOR MONITORING POINT LOCATION AND DESIGNATION
- MW-2 — EXISTING MONITORING WELL LOCATION AND DESIGNATION

NOTES

CONCENTRATIONS IN µg/m³

µg/m³ – MICROGRAMS PER CUBIC METER

VOCs – VOLATILE ORGANIC COMPOUNDS

FT BLS – FEET BELOW LAND SURFACE

25' 0 25'

Title:

SOIL VAPOR CHEMISTRY RESULTS

FORMER GETTY STATION
239 10TH AVENUE
NEW YORK, NEW YORK

Prepared For:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.W.	Date: 12MAR14	FIGURE 9
Prepared by: J.A.D.	Scale: AS SHOWN	
Project Mgr: W.S.	Project: 2355.0001Y000	
File: 2355.0001Y111.03.DWG		

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TABLES

Table 1. Summary of Soil Boring and Temporary Monitoring Well Construction Details.
239 10th Avenue, New York, New York

Designation	Boring Depth (ft bls)	Well Depth (ft bls)	Depth of Screen Top (ft bls)	Depth of Screen Bottom (ft bls)	Well Screen Material	Completion Date
SB-1/TP-1	32	18	8	18	-inch, 20-slot PVC	2/7/2014
SB-2	32	--	--	--		2/7/2014
SB-3	32	--	--	--		2/7/2014
SB-4	32	--	--	--		2/10/2014
SB-5	32	--	--	--		2/6/2014
SB-6	32	--	--	--		2/10/2014
SB-7	38	--	--	--		2/10/2014

ft bls- Feet below land surface
PVC- Polyvinyl chloride

Table 2. Summary of Water-Level Data
239 10th Avenue, New York, New York, New York

Well Number	12/16/2014 Depth to Water (FT BTOC)	2/7/2014 Depth to Water (FT BTOC)
MW-1	8.08	NA
MW-2	7.62	7.13
MW-3	9.02	8.82
MW-4	8.62	NA
MW-5	8.80	8.41
MW-6	8.35	NA
MW-7	7.71	7.34
MW-8	5.87	NA
MW-9	9.11	NA
MW-10	9.08	NA
MW-11	7.93	NA
MW-12	7.91	NA

NA- Not analyzed
FT BTOC- Feet below top of casing

Table 3. Summary of Sample Collection Data For All Media.
239 10th Avenue, New York, New York

SOIL

Sample ID	Sample Date	Sample Interval (ft bls)
SB-1(0-2)	2/6/2014	0-2'
SB-1 (7-10)	2/7/2014	7'-10'
SB-1 (30-32)	2/7/2014	30'-32'
SB-2 (0-2)	2/6/2014	0-2'
SB-2 (7-10)	2/7/2014	7'-10'
SB-2 (30-32)	2/7/2014	30'-32'
SB-3 (7-10)	2/6/2014	7'-10'
SB-3 (30-32)	2/7/2014	30'-32'
SB-4 (0-2)	2/4/2014	0-2'
SB-4 (6-8.5)	2/10/2014	6'-8.5'
SB-4 (30-32)	2/10/2014	30'-32'
SB-5 (7-10)	2/6/2014	7'-10'
SB-5 (30-32)	2/6/2014	30'-32'
SB-6 (0-2)	2/4/2014	0-2'
SB-6 (0-2) DUP	2/4/2014	0-2'
SB-6 (7-10)	2/10/2014	7'-10'
SB-6 (30-32)	2/10/2014	30'-32'
SB-7 (36-38)	2/10/2014	36'-38'

GROUNDWATER

Sample ID	Sample Date	Screen Interval (ft bls)
SB-1/TP-1	2/7/2014	8-18
MW-2	2/7/2014	22
MW-3	2/7/2014	18
MW-5	2/7/2014	18
MW-7	2/7/2014	16
MW-7 DUP	2/7/2014	16

SOIL VAPOR

Sample ID	Sample Date	Sample Interval (ft bls)
SV-1	2/7/2014	4-5
SV-2	2/7/2014	4-5
SV-3	2/7/2014	4-5

ft bls- Feet below land surface
DUP- Duplicate

Table 4. Summary of Analytical Methods For All Media.
239 10th Avenue, New York, New York

Matrix	Total Number of Samples	Analytical Parameter	Analytical Method	Number of QA/QC Samples[1]
SOIL	17	VOCs	USEPA 8260C	5
SOIL	17	SVOCs	USEPA 8270D	5
SOIL	17	Metals	USEPA 6010C	5
SOIL	10	Pesticides	USEPA 8081B	5
SOIL	10	PCBs	USEPA 8082A	5

Matrix	Total Number of Samples	Analytical Parameter	Analytical Method	Number of QA/QC Samples[2]
Groundwater	1	VOCs	USEPA 8260C	1
Groundwater	4	SVOCs	USEPA 8270D	2
Groundwater	4	Metals	USEPA 6020A	2
Groundwater	4	Pesticides	USEPA 8081B	2
Groundwater	4	PCBs	USEPA 8082A	2

Matrix	Total Number of Samples	Analytical Parameter	Analytical Method	Number of QA/QC Samples
Soil Vapor	3	VOCs	TO-15	0

[1]- Includes 1 duplicate sample and 4 field blank samples

[2]- Includes 1 duplicate sample and 1 field blank sample

USEPA- United States Environmental Protection Agency

Table 5. Summary of Volatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3
		Sample Date:	2/6/2014	2/7/2014	2/7/2014	2/6/2014	2/7/2014	2/7/2014	2/6/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	0-2	7-10	30-32	7-10
1,1,1,2-Tetrachloroethane	--		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
1,1,1-Trichloroethane	680		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
1,1,2,2-Tetrachloroethane	--		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
1,1,2-Trichloroethane	--		2.2 U	83 U	1.6 U	1.6 U	1.5 U	1.3 U	81 U
1,1-Dichloroethane	270		2.2 U	83 U	1.6 U	1.6 U	1.5 U	1.3 U	81 U
1,1-Dichloroethene	330		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
1,1-Dichloropropene	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
1,2,3-Trichlorobenzene	--		7.2 U	15 J	5.2 U	5.5 U	5.2 U	4.4 U	270 U
1,2,3-Trichloropropane	--		14 U	550 U	10 U	11 U	10 U	8.8 U	540 U
1,2,4,5-Tetramethylbenzene	--		0.62 J	470	4.2 U	4.4 U	4.2	3.5 U	40000
1,2,4-Trichlorobenzene	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
1,2,4-Trimethylbenzene	3600		7.2 U	280 U	5.2 U	5.5 U	0.8 J	4.4 U	**61000**
1,2-Dibromoethane	--		5.7 U	220 U	4.2 U	4.4 U	4.1 U	3.5 U	220 U
1,2-Dichlorobenzene	1100		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
1,2-Dichloroethane	20		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
1,2-Dichloropropane	--		5 U	190 U	3.7 U	3.9 U	3.6 U	3.1 U	190 U
1,3,5-Trimethylbenzene	8400		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	1500
1,3-Dichlorobenzene	2400		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
1,3-Dichloropropane	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
1,4-Dichlorobenzene	1800		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
1,4-Dioxane	100		140 U	5500 U	100 U	110 U	100 U	88 U	5400 U
2,2-Dichloropropane	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
2-Butanone (MEK)	120		14 U	550 U	10 U	2.4 J	10 U	8.8 U	540 U
2-Hexanone	--		14 U	550 U	10 U	11 U	10 U	8.8 U	540 U
4-Ethyltoluene	--		5.7 U	17 J	4.2 U	4.4 U	0.32 J	3.5 U	20000
4-Methyl-2-pentanone (MIBK)	--		14 U	550 U	10 U	11 U	10 U	8.8 U	540 U
Acetone	50		5 J	550 U	10 U	15	10 U	8.8 U	540 U
Acrylonitrile	--		14 U	550 U	10 U	11 U	10 U	8.8 U	540 U
BENZENE, 1,4-DIETHYL	-		5.7 U	140 J	4.2 U	4.4 U	1.1 J	3.5 U	220 U
Benzene	60		1.4 U	27 J	1 U	1.1	0.55 J	0.88 U	**380**
Bromobenzene	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
Bromochloromethane	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U

Table 5. Summary of Volatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3
		Sample Date:	2/6/2014	2/7/2014	2/7/2014	2/6/2014	2/7/2014	2/7/2014	2/6/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	0-2	7-10	30-32	7-10
Bromodichloromethane	--		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
Bromoform	--		5.7 U	220 U	4.2 U	4.4 U	4.1 U	3.5 U	220 U
Bromomethane	--		2.9 U	110 U	2.1 U	2.2 U	2.1 U	1.8 U	110 U
Carbon disulfide	--		14 U	550 U	10 U	11 U	10 U	8.8 U	540 U
Carbon tetrachloride	760		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
Chlorobenzene	1100		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
Chloroethane	--		2.9 U	110 U	2.1 U	2.2 U	2.1 U	1.8 U	110 U
Chloroform	370		2.2 U	83 U	1.6 U	1.6 U	1.5 U	1.3 U	81 U
Chloromethane	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
cis-1,2-Dichloroethene	250		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
cis-1,3-Dichloropropene	--		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
Dibromochloromethane	--		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
Dibromochloropropane	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
Dibromomethane	--		14 U	550 U	10 U	11 U	10 U	8.8 U	540 U
Dichlorodifluoromethane	--		14 U	550 U	10 U	11 U	10 U	8.8 U	540 U
Diethyl Ether	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
Ethylbenzene	1000		1.4 U	55 U	1 U	1.1 U	0.28 J	0.88 U	**8200**
Hexachlorobutadiene	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
Isopropylbenzene	--		1.4 U	75	1 U	1.1 U	0.94 J	0.88 U	3800
m+p-Xylene	--		2.9 U	110 U	2.1 U	2.2 U	0.45 J	1.8 U	13000
Methylene chloride	50		14 U	550 U	10 U	11 U	10 U	8.8 U	540 U
MTBE	930		2.9 U	110 U	2.1 U	2.2 U	1.4 J	1.8 U	110 U
Naphthalene	12000		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	11000
n-Butylbenzene	12000		1.4 U	110	1 U	1.1 U	1 U	0.88 U	6300
n-Propylbenzene	3900		1.4 U	270	1 U	1.1 U	1.8	0.88 U	**9400**
o-Chlorotoluene	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
o-Xylene	--		2.9 U	110 U	2.1 U	2.2 U	2.1 U	1.8 U	2300
p-Chlorotoluene	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
p-Isopropyltoluene	--		1.4 U	21 J	1 U	1.1 U	1 U	0.88 U	1200
sec-Butylbenzene	11000		1.4 U	69	1 U	1.1 U	0.36 J	0.88 U	1800
Styrene	--		2.9 U	110 U	2.1 U	2.2 U	2.1 U	1.8 U	110 U
t-Butyl Alcohol	--		86 U	3300 U	63 U	66 U	13 J	53 U	3200 U

Table 5. Summary of Volatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-1 2/6/2014 0-2	SB-1 2/7/2014 7-10	SB-1 2/7/2014 30-32	SB-2 2/6/2014 0-2	SB-2 2/7/2014 7-10	SB-2 2/7/2014 30-32	SB-3 2/6/2014 7-10
tert-Butylbenzene	5900		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
Tetrachloroethene	1300		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
Toluene	700		2.2 U	28 J	1.6 U	1.6 U	0.53 J	1.3 U	**920**
trans-1,2-Dichloroethene	190		2.2 U	83 U	1.6 U	1.6 U	1.5 U	1.3 U	81 U
trans-1,3-Dichloropropene	--		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
trans-1,4-Dichloro-2-butene	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
Trichloroethene	470		1.4 U	55 U	1 U	1.1 U	1 U	0.88 U	54 U
Trichlorofluoromethane	--		7.2 U	280 U	5.2 U	5.5 U	5.2 U	4.4 U	270 U
Vinyl acetate	--		14 U	550 U	10 U	11 U	10 U	8.8 U	540 U
Vinyl chloride	20		2.9 U	110 U	2.1 U	2.2 U	2.1 U	1.8 U	110 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-3 2/7/2014 30-32	SB-4 2/4/2014 0-2	SB-4 2/10/2014 6-8.5	SB-4 2/10/2014 30-32	SB-5 2/6/2014 7-10	SB-5 2/6/2014 30-32	SB-6 2/4/2014 0-2
1,1,1,2-Tetrachloroethane	--		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
1,1,1-Trichloroethane	680		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
1,1,2,2-Tetrachloroethane	--		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
1,1,2-Trichloroethane	--		1.6 U	2.1 U	100 U	1.7 U	1.4 U	1.5 U	2.1 U
1,1-Dichloroethane	270		1.6 U	2.1 U	100 U	1.7 U	1.4 U	1.5 U	2.1 U
1,1-Dichloroethene	330		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
1,1-Dichloropropene	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
1,2,3-Trichlorobenzene	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
1,2,3-Trichloropropane	--		11 U	14 U	690 U	11 U	9.3 U	10 U	14 U
1,2,4,5-Tetramethylbenzene	--		0.29 J	5.5 U	1400	4.5 U	3.7 U	4 U	5.6 U
1,2,4-Trichlorobenzene	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
1,2,4-Trimethylbenzene	3600		5.4 U	6.9 U	**6800**	5.7 U	4.7 U	5 U	7 U
1,2-Dibromoethane	--		4.3 U	5.5 U	280 U	4.5 U	3.7 U	4 U	5.6 U
1,2-Dichlorobenzene	1100		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
1,2-Dichloroethane	20		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
1,2-Dichloropropane	--		3.8 U	4.8 U	240 U	4 U	3.3 U	3.5 U	4.9 U
1,3,5-Trimethylbenzene	8400		5.4 U	6.9 U	1700	5.7 U	4.7 U	5 U	7 U
1,3-Dichlorobenzene	2400		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
1,3-Dichloropropane	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
1,4-Dichlorobenzene	1800		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
1,4-Dioxane	100		110 U	140 U	6900 U	110 U	93 U	100 U	140 U
2,2-Dichloropropane	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
2-Butanone (MEK)	120		11 U	5.7 J	690 U	11 U	9.3 U	10 U	8.6 J
2-Hexanone	--		11 U	14 U	690 U	11 U	9.3 U	10 U	14 U
4-Ethyltoluene	--		4.3 U	5.5 U	4400	4.5 U	3.7 U	4 U	5.6 U
4-Methyl-2-pentanone (MIBK)	--		11 U	14 U	690 U	11 U	9.3 U	10 U	14 U
Acetone	50		11 U	31	690 U	11 U	9.3 U	10 U	43
Acrylonitrile	--		11 U	14 U	690 U	11 U	9.3 U	10 U	14 U
BENZENE, 1,4-DIETHYL	-		4.3 U	5.5 U	3000	4.5 U	3.7 U	4 U	5.6 U
Benzene	60		1.1 U	1.4 U	20 J	1.1 U	0.93 U	1 U	1.4 U
Bromobenzene	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
Bromochloromethane	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U

Table 5. Summary of Volatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-3	SB-4	SB-4	SB-4	SB-5	SB-5	SB-6
		Sample Date:	2/7/2014	2/4/2014	2/10/2014	2/10/2014	2/6/2014	2/6/2014	2/4/2014
		Sample Depth (ft bls):	30-32	0-2	6-8.5	30-32	7-10	30-32	0-2
Bromodichloromethane	--		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
Bromoform	--		4.3 U	5.5 U	280 U	4.5 U	3.7 U	4 U	5.6 U
Bromomethane	--		2.2 U	2.7 U	140 U	2.3 U	1.9 U	2 U	2.8 U
Carbon disulfide	--		11 U	14 U	690 U	11 U	9.3 U	10 U	14 U
Carbon tetrachloride	760		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
Chlorobenzene	1100		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
Chloroethane	--		2.2 U	2.7 U	140 U	2.3 U	1.9 U	2 U	2.8 U
Chloroform	370		1.6 U	2.1 U	100 U	1.7 U	1.4 U	1.5 U	2.1 U
Chloromethane	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
cis-1,2-Dichloroethene	250		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
cis-1,3-Dichloropropene	--		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
Dibromochloromethane	--		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
Dibromochloropropane	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
Dibromomethane	--		11 U	14 U	690 U	11 U	9.3 U	10 U	14 U
Dichlorodifluoromethane	--		11 U	14 U	690 U	11 U	9.3 U	10 U	14 U
Diethyl Ether	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
Ethylbenzene	1000		1.1 U	1.4 U	770	1.1 U	0.93 U	1 U	1.4 U
Hexachlorobutadiene	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
Isopropylbenzene	--		1.1 U	1.4 U	190	1.1 U	0.93 U	1 U	1.4 U
m+p-Xylene	--		2.2 U	2.7 U	2400	2.3 U	1.9 U	2 U	2.8 U
Methylene chloride	50		11 U	14 U	690 U	11 U	9.3 U	10 U	14 U
MTBE	930		2.2 U	2.7 U	140 U	2.3 U	2.5	2 U	2.8 U
Naphthalene	12000		5.4 U	6.9 U	960	5.7 U	0.95 J	5 U	7 U
n-Butylbenzene	12000		1.1 U	1.4 U	330	1.1 U	0.93 U	1 U	1.4 U
n-Propylbenzene	3900		1.1 U	1.4 U	880	1.1 U	0.93 U	1 U	1.4 U
o-Chlorotoluene	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
o-Xylene	--		2.2 U	2.7 U	920	2.3 U	1.9 U	2 U	2.8 U
p-Chlorotoluene	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
p-Isopropyltoluene	--		1.1 U	1.4 U	74	1.1 U	0.93 U	1 U	1.4 U
sec-Butylbenzene	11000		1.1 U	1.4 U	120	1.1 U	0.93 U	1 U	1.4 U
Styrene	--		2.2 U	2.7 U	140 U	2.3 U	1.9 U	2 U	2.8 U
t-Butyl Alcohol	--		65 U	NA	4100 U	68 U	16 J	60 U	NA

Table 5. Summary of Volatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-3 2/7/2014 30-32	SB-4 2/4/2014 0-2	SB-4 2/10/2014 6-8.5	SB-4 2/10/2014 30-32	SB-5 2/6/2014 7-10	SB-5 2/6/2014 30-32	SB-6 2/4/2014 0-2
tert-Butylbenzene	5900		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
Tetrachloroethene	1300		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
Toluene	700		1.6 U	2.1 U	130	1.7 U	1.4 U	1.5 U	2.1 U
trans-1,2-Dichloroethene	190		1.6 U	2.1 U	100 U	1.7 U	1.4 U	1.5 U	2.1 U
trans-1,3-Dichloropropene	--		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
trans-1,4-Dichloro-2-butene	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
Trichloroethene	470		1.1 U	1.4 U	69 U	1.1 U	0.93 U	1 U	1.4 U
Trichlorofluoromethane	--		5.4 U	6.9 U	340 U	5.7 U	4.7 U	5 U	7 U
Vinyl acetate	--		11 U	14 U	690 U	11 U	9.3 U	10 U	14 U
Vinyl chloride	20		2.2 U	2.7 U	140 U	2.3 U	1.9 U	2 U	2.8 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-6DUP	SB-6	SB-6	SB-7
		Sample Date:	2/4/2014	2/10/2014	2/10/2014	2/10/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	36-38
1,1,1,2-Tetrachloroethane	--		1.4 U	140 U	1.2 U	1.2 U
1,1,1-Trichloroethane	680		1.4 U	140 U	1.2 U	1.2 U
1,1,2,2-Tetrachloroethane	--		1.4 U	140 U	1.2 U	1.2 U
1,1,2-Trichloroethane	--		2.1 U	210 U	1.7 U	1.7 U
1,1-Dichloroethane	270		2.1 U	210 U	1.7 U	1.7 U
1,1-Dichloroethene	330		1.4 U	140 U	1.2 U	1.2 U
1,1-Dichloropropene	--		7.1 U	690 U	5.8 U	5.8 U
1,2,3-Trichlorobenzene	--		7.1 U	690 U	5.8 U	5.8 U
1,2,3-Trichloropropane	--		14 U	1400 U	12 U	12 U
1,2,4,5-Tetramethylbenzene	--		5.7 U	1900	4.6 U	4.6 U
1,2,4-Trichlorobenzene	--		7.1 U	690 U	5.8 U	5.8 U
1,2,4-Trimethylbenzene	3600		7.1 U	**10000**	5.8 U	5.8 U
1,2-Dibromoethane	--		5.7 U	560 U	4.6 U	4.6 U
1,2-Dichlorobenzene	1100		7.1 U	690 U	5.8 U	5.8 U
1,2-Dichloroethane	20		1.4 U	140 U	1.2 U	1.2 U
1,2-Dichloropropane	--		5 U	480 U	4.1 U	4 U
1,3,5-Trimethylbenzene	8400		7.1 U	2000	5.8 U	5.8 U
1,3-Dichlorobenzene	2400		7.1 U	690 U	5.8 U	5.8 U
1,3-Dichloropropane	--		7.1 U	690 U	5.8 U	5.8 U
1,4-Dichlorobenzene	1800		7.1 U	690 U	5.8 U	5.8 U
1,4-Dioxane	100		140 U	14000 U	120 U	120 U
2,2-Dichloropropane	--		7.1 U	690 U	5.8 U	5.8 U
2-Butanone (MEK)	120		8.4 J	1400 U	12 U	12 U
2-Hexanone	--		14 U	1400 U	12 U	12 U
4-Ethyltoluene	--		5.7 U	4000	4.6 U	4.6 U
4-Methyl-2-pentanone (MIBK)	--		14 U	1400 U	12 U	12 U
Acetone	50		50	1400 U	12 U	12 U
Acrylonitrile	--		14 U	1400 U	12 U	12 U
BENZENE, 1,4-DIETHYL	-		5.7 U	4000	4.6 U	4.6 U
Benzene	60		1.4 U	140 U	1.2 U	1.2 U
Bromobenzene	--		7.1 U	690 U	5.8 U	5.8 U
Bromochloromethane	--		7.1 U	690 U	5.8 U	5.8 U

Table 5. Summary of Volatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-6DUP	SB-6	SB-6	SB-7
		Sample Date:	2/4/2014	2/10/2014	2/10/2014	2/10/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	36-38
Bromodichloromethane	--		1.4 U	140 U	1.2 U	1.2 U
Bromoform	--		5.7 U	560 U	4.6 U	4.6 U
Bromomethane	--		2.8 U	280 U	2.3 U	2.3 U
Carbon disulfide	--		14 U	1400 U	12 U	12 U
Carbon tetrachloride	760		1.4 U	140 U	1.2 U	1.2 U
Chlorobenzene	1100		1.4 U	140 U	1.2 U	1.2 U
Chloroethane	--		2.8 U	280 U	2.3 U	2.3 U
Chloroform	370		2.1 U	210 U	1.7 U	1.7 U
Chloromethane	--		7.1 U	690 U	5.8 U	5.8 U
cis-1,2-Dichloroethene	250		1.4 U	140 U	1.2 U	1.2 U
cis-1,3-Dichloropropene	--		1.4 U	140 U	1.2 U	1.2 U
Dibromochloromethane	--		1.4 U	140 U	1.2 U	1.2 U
Dibromochloropropane	--		7.1 U	690 U	5.8 U	5.8 U
Dibromomethane	--		14 U	1400 U	12 U	12 U
Dichlorodifluoromethane	--		14 U	1400 U	12 U	12 U
Diethyl Ether	--		7.1 U	690 U	5.8 U	5.8 U
Ethylbenzene	1000		1.4 U	**1100**	1.2 U	1.2 U
Hexachlorobutadiene	--		7.1 U	690 U	5.8 U	5.8 U
Isopropylbenzene	--		1.4 U	440	1.2 U	1.2 U
m+p-Xylene	--		2.8 U	1300	2.3 U	2.3 U
Methylene chloride	50		14 U	1400 U	12 U	12 U
MTBE	930		1.7 J	280 U	2.3 U	2.3 U
Naphthalene	12000		7.1 U	980	5.8 U	5.8 U
n-Butylbenzene	12000		1.4 U	740	1.2 U	1.2 U
n-Propylbenzene	3900		1.4 U	1800	1.2 U	1.2 U
o-Chlorotoluene	--		7.1 U	690 U	5.8 U	5.8 U
o-Xylene	--		2.8 U	420	2.3 U	2.3 U
p-Chlorotoluene	--		7.1 U	690 U	5.8 U	5.8 U
p-Isopropyltoluene	--		1.4 U	190	1.2 U	1.2 U
sec-Butylbenzene	11000		1.4 U	290	1.2 U	1.2 U
Styrene	--		2.8 U	280 U	2.3 U	2.3 U
t-Butyl Alcohol	--		NA	8300 U	70 U	70 U

Table 5. Summary of Volatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	SB-6DUP 2/4/2014 0-2	SB-6 2/10/2014 7-10	SB-6 2/10/2014 30-32	SB-7 2/10/2014 36-38
tert-Butylbenzene	5900		7.1 U	690 U	5.8 U	5.8 U
Tetrachloroethene	1300		1.4 U	140 U	1.2 U	1.2 U
Toluene	700		2.1 U	41 J	1.7 U	1.7 U
trans-1,2-Dichloroethene	190		2.1 U	210 U	1.7 U	1.7 U
trans-1,3-Dichloropropene	--		1.4 U	140 U	1.2 U	1.2 U
trans-1,4-Dichloro-2-butene	--		7.1 U	690 U	5.8 U	5.8 U
Trichloroethene	470		1.4 U	140 U	1.2 U	1.2 U
Trichlorofluoromethane	--		7.1 U	690 U	5.8 U	5.8 U
Vinyl acetate	--		14 U	1400 U	12 U	12 U
Vinyl chloride	20		2.8 U	280 U	2.3 U	2.3 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
NA - Compound was not analyzed by laboratory

Table 6. Summary of Semivolatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3
		Sample Date:	2/6/2014	2/7/2014	2/7/2014	2/6/2014	2/7/2014	2/7/2014	2/6/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	0-2	7-10	30-32	7-10
1,1'-Biphenyl	--		2500 U	4200 U	440 U	1700 U	4300 U	430 U	1700 U
1,2,4,5-Tetrachlorobenzene	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
1,2,4-Trichlorobenzene	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
1,2-Dichlorobenzene	1100		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
1,3-Dichlorobenzene	2400		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
1,4-Dichlorobenzene	1800		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
2,2'-oxybis (1-chloropropane)	--		1300 U	2200 U	230 U	870 U	2300 U	220 U	900 U
2,4,5-Trichlorophenol	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
2,4,6-Trichlorophenol	--		650 U	1100 U	110 U	440 U	1100 U	110 U	450 U
2,4-Dichlorophenol	--		640 U	1600 U	170 U	660 U	1700 U	170 U	670 U
2,4-Dimethylphenol	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
2,4-Dinitrophenol	--		5200 U	8800 U	920 U	3500 U	9100 U	900 U	3600 U
2,4-Dinitrotoluene	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
2,6-Dinitrotoluene	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
2-Chloronaphthalene	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
2-Chlorophenol	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
2-Methylnaphthalene	--		1300 U	2200 U	230 U	870 U	2300 U	220 U	14000
2-Methylphenol	330		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
2-Nitroaniline	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
2-Nitrophenol	--		1500 U	4000 U	410 U	1600 U	4100 U	400 U	1600 U
3&4-Methylphenol	330		1000 U	2600 U	280 U	1000 U	2700 U	270 U	1100 U
3,3'-Dichlorobenzidine	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
3-Nitroaniline	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
4,6-Dinitro-2-methylphenol	--		2800 U	4800 U	500 U	1900 U	4900 U	490 U	1900 U
4-Bromophenyl phenyl ether	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
4-Chloro-3-methylphenol	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
4-Chloroaniline	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
4-Chlorophenyl phenyl ether	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
4-Nitroaniline	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
4-Nitrophenol	--		1500 U	2600 U	270 U	1000 U	2700 U	260 U	1000 U
Acenaphthene	20000		570 U	1500 U	150 U	580 U	1500 U	150 U	600 U

Table 6. Summary of Semivolatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3
		Sample Date:	2/6/2014	2/7/2014	2/7/2014	2/6/2014	2/7/2014	2/7/2014	2/6/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	0-2	7-10	30-32	7-10
Acenaphthylene	100000		180 J	1500 U	150 U	580 U	1500 U	150 U	600 U
Acetophenone	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Anthracene	100000		380 J	1100 U	110 U	150 J	1100 U	110 U	200 J
Benzo[a]anthracene	1000		730	660 J	110 U	530	500 J	110 U	910
Benzo[a]pyrene	1000		450 J	630 J	150 U	470 J	500 J	150 U	1000
Benzo[b]fluoranthene	1000		770	910 J	110 U	640	640 J	110 U	**1400**
Benzo[g,h,i]perylene	100000		270 J	530 J	150 U	290 J	460 J	150 U	580 J
Benzo[k]fluoranthene	800		300 J	1100 U	110 U	270 J	1100 U	110 U	650
Benzoic Acid	--		3500 U	5900 U	620 U	2400 U	6200 U	610 U	2400 U
Benzyl Alcohol	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Bis(2-chloroethoxy)methane	--		770 U	2000 U	210 U	790 U	2000 U	200 U	810 U
Bis(2-chloroethyl) ether	--		640 U	1600 U	170 U	660 U	1700 U	170 U	670 U
Bis(2-ethylhexyl) phthalate	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	1500
Butylbenzyl phthalate	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Carbazole	--		230 J	1800 U	190 U	730 U	1900 U	190 U	750 U
Chrysene	1000		570	760 J	110 U	540	570 J	110 U	1000
Dibenzo[a,h]anthracene	330		430 U	1100 U	110 U	440 U	1100 U	110 U	180 J
Dibenzofuran	7000		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Diethyl phthalate	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Dimethyl phthalate	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Di-n-butyl phthalate	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Di-n-octyl phthalate	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Fluoranthene	100000		1600	1300	110 U	1000	810 J	110 U	1700
Fluorene	30000		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Hexachlorobenzene	330		430 U	1100 U	110 U	440 U	1100 U	110 U	450 U
Hexachlorobutadiene	--		1100 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Hexachlorocyclopentadiene	--		2000 U	5200 U	550 U	2100 U	5400 U	540 U	2200 U
Hexachloroethane	--		870 U	1500 U	150 U	580 U	1500 U	150 U	600 U
Indeno[1,2,3-cd]pyrene	500		230 J	**540 J**	150 U	260 J	460 J	150 U	**540 J**
Isophorone	--		970 U	1600 U	170 U	660 U	1700 U	170 U	670 U
Naphthalene	12000		1100 U	1800 U	190 U	730 U	1900 U	190 U	**13000**

Table 6. Summary of Semivolatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3
		Sample Date:	2/6/2014	2/7/2014	2/7/2014	2/6/2014	2/7/2014	2/7/2014	2/6/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	0-2	7-10	30-32	7-10
Nitrobenzene	--		970 U	1600 U	170 U	660 U	1700 U	170 U	670 U
n-Nitrosodi-n-propylamine	--		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
n-Nitrosodiphenylamine	--		570 U	1500 U	150 U	580 U	1500 U	150 U	600 U
Pentachlorophenol	800		570 U	1500 U	150 U	580 U	1500 U	150 U	600 U
Phenanthrene	100000		1800	700 J	110 U	580	460 J	110 U	720
Phenol	330		710 U	1800 U	190 U	730 U	1900 U	190 U	750 U
Pyrene	100000		1200	1100	110 U	930	760 J	110 U	1800

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Table 6. Summary of Semivolatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-3	SB-4	SB-4	SB-4	SB-5	SB-5	SB-6
		Sample Date:	2/7/2014	2/4/2014	2/10/2014	2/10/2014	2/6/2014	2/6/2014	2/4/2014
		Sample Depth (ft bls):	30-32	0-2	6-8.5	30-32	7-10	30-32	0-2
1,1'-Biphenyl	--		440 U	1600 U	8700 U	430 U	2500 U	430 U	1600 U
1,2,4,5-Tetrachlorobenzene	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
1,2,4-Trichlorobenzene	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
1,2-Dichlorobenzene	1100		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
1,3-Dichlorobenzene	2400		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
1,4-Dichlorobenzene	1800		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
2,2'-oxybis (1-chloropropane)	--		230 U	860 U	4600 U	230 U	1300 U	220 U	860 U
2,4,5-Trichlorophenol	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
2,4,6-Trichlorophenol	--		120 U	430 U	2300 U	110 U	660 U	110 U	430 U
2,4-Dichlorophenol	--		180 U	650 U	3400 U	170 U	1000 U	170 U	650 U
2,4-Dimethylphenol	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
2,4-Dinitrophenol	--		940 U	3400 U	18000 U	900 U	5300 U	900 U	3400 U
2,4-Dinitrotoluene	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
2,6-Dinitrotoluene	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
2-Chloronaphthalene	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
2-Chlorophenol	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
2-Methylnaphthalene	--		230 U	860 U	4600 U	230 U	1300 U	220 U	860 U
2-Methylphenol	330		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
2-Nitroaniline	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
2-Nitrophenol	--		420 U	1600 U	8200 U	410 U	2400 U	410 U	1600 U
3&4-Methylphenol	330		280 U	1000 U	5500 U	270 U	1600 U	270 U	1000 U
3,3'-Dichlorobenzidine	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
3-Nitroaniline	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
4,6-Dinitro-2-methylphenol	--		510 U	1900 U	9900 U	490 U	2900 U	490 U	1900 U
4-Bromophenyl phenyl ether	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
4-Chloro-3-methylphenol	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
4-Chloroaniline	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
4-Chlorophenyl phenyl ether	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
4-Nitroaniline	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
4-Nitrophenol	--		270 U	1000 U	5300 U	260 U	1500 U	260 U	1000 U
Acenaphthene	20000		160 U	580 U	3000 U	150 U	880 U	150 U	570 U

Table 6. Summary of Semivolatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-3	SB-4	SB-4	SB-4	SB-5	SB-5	SB-6
		Sample Date:	2/7/2014	2/4/2014	2/10/2014	2/10/2014	2/6/2014	2/6/2014	2/4/2014
		Sample Depth (ft bls):	30-32	0-2	6-8.5	30-32	7-10	30-32	0-2
Acenaphthylene	100000		160 U	180 J	3000 U	150 U	880 U	150 U	220 J
Acetophenone	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Anthracene	100000		120 U	170 J	2300 U	110 U	660 U	110 U	280 J
Benzo[a]anthracene	1000		120 U	760	2300 U	110 U	470 J	110 U	730
Benzo[a]pyrene	1000		160 U	870	3000 U	150 U	380 J	150 U	720
Benzo[b]fluoranthene	1000		120 U	**1100**	2300 U	110 U	510 J	110 U	900
Benzo[g,h,i]perylene	100000		160 U	650	3000 U	150 U	250 J	150 U	490 J
Benzo[k]fluoranthene	800		120 U	460	2300 U	110 U	660 U	110 U	340 J
Benzoic Acid	--		630 U	2300 U	12000 U	610 U	3600 U	610 U	2300 U
Benzyl Alcohol	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Bis(2-chloroethoxy)methane	--		210 U	780 U	4100 U	200 U	1200 U	200 U	780 U
Bis(2-chloroethyl) ether	--		180 U	650 U	3400 U	170 U	1000 U	170 U	650 U
Bis(2-ethylhexyl) phthalate	--		200 U	350 J	3800 U	190 U	1100 U	190 U	720 U
Butylbenzyl phthalate	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Carbazole	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Chrysene	1000		120 U	830	2300 U	110 U	450 J	110 U	760
Dibenzo[a,h]anthracene	330		120 U	150 J	2300 U	110 U	660 U	110 U	430 U
Dibenzofuran	7000		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Diethyl phthalate	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Dimethyl phthalate	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Di-n-butyl phthalate	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Di-n-octyl phthalate	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Fluoranthene	100000		120 U	1100	2300 U	110 U	910	110 U	1200
Fluorene	30000		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Hexachlorobenzene	330		120 U	430 U	2300 U	110 U	660 U	110 U	430 U
Hexachlorobutadiene	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Hexachlorocyclopentadiene	--		560 U	2100 U	11000 U	540 U	3200 U	540 U	2100 U
Hexachloroethane	--		160 U	580 U	3000 U	150 U	880 U	150 U	570 U
Indeno[1,2,3-cd]pyrene	500		160 U	**670**	3000 U	150 U	880 U	150 U	470 J
Isophorone	--		180 U	650 U	3400 U	170 U	1000 U	170 U	650 U
Naphthalene	12000		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U

Table 6. Summary of Semivolatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-3	SB-4	SB-4	SB-4	SB-5	SB-5	SB-6
		Sample Date:	2/7/2014	2/4/2014	2/10/2014	2/10/2014	2/6/2014	2/6/2014	2/4/2014
		Sample Depth (ft bls):	30-32	0-2	6-8.5	30-32	7-10	30-32	0-2
Nitrobenzene	--		180 U	650 U	3400 U	170 U	1000 U	170 U	650 U
n-Nitrosodi-n-propylamine	--		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
n-Nitrosodiphenylamine	--		160 U	580 U	3000 U	150 U	880 U	150 U	570 U
Pentachlorophenol	800		160 U	580 U	3000 U	150 U	880 U	150 U	570 U
Phenanthrene	100000		120 U	440	2300 U	110 U	400 J	110 U	510
Phenol	330		200 U	720 U	3800 U	190 U	1100 U	190 U	720 U
Pyrene	100000		120 U	870	2300 U	110 U	790	110 U	1000

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Table 6. Summary of Semivolatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-6DUP	SB-6	SB-6	SB-7
		Sample Date:	2/4/2014	2/10/2014	2/10/2014	2/10/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	36-38
1,1'-Biphenyl	--		1600 U	8600 U	440 U	440 U
1,2,4,5-Tetrachlorobenzene	--		720 U	3800 U	190 U	190 U
1,2,4-Trichlorobenzene	--		720 U	3800 U	190 U	190 U
1,2-Dichlorobenzene	1100		720 U	3800 U	190 U	190 U
1,3-Dichlorobenzene	2400		720 U	3800 U	190 U	190 U
1,4-Dichlorobenzene	1800		720 U	3800 U	190 U	190 U
2,2'-oxybis (1-chloropropane)	--		860 U	4500 U	230 U	230 U
2,4,5-Trichlorophenol	--		720 U	3800 U	190 U	190 U
2,4,6-Trichlorophenol	--		430 U	2300 U	120 U	120 U
2,4-Dichlorophenol	--		650 U	3400 U	170 U	170 U
2,4-Dimethylphenol	--		720 U	3800 U	190 U	190 U
2,4-Dinitrophenol	--		3500 U	18000 U	920 U	920 U
2,4-Dinitrotoluene	--		720 U	3800 U	190 U	190 U
2,6-Dinitrotoluene	--		720 U	3800 U	190 U	190 U
2-Chloronaphthalene	--		720 U	3800 U	190 U	190 U
2-Chlorophenol	--		720 U	3800 U	190 U	190 U
2-Methylnaphthalene	--		860 U	4500 U	230 U	230 U
2-Methylphenol	330		720 U	3800 U	190 U	190 U
2-Nitroaniline	--		720 U	3800 U	190 U	190 U
2-Nitrophenol	--		1600 U	8200 U	420 U	420 U
3&4-Methylphenol	330		1000 U	5400 U	280 U	280 U
3,3'-Dichlorobenzidine	--		720 U	3800 U	190 U	190 U
3-Nitroaniline	--		720 U	3800 U	190 U	190 U
4,6-Dinitro-2-methylphenol	--		1900 U	9800 U	500 U	500 U
4-Bromophenyl phenyl ether	--		720 U	3800 U	190 U	190 U
4-Chloro-3-methylphenol	--		720 U	3800 U	190 U	190 U
4-Chloroaniline	--		720 U	3800 U	190 U	190 U
4-Chlorophenyl phenyl ether	--		720 U	3800 U	190 U	190 U
4-Nitroaniline	--		720 U	3800 U	190 U	190 U
4-Nitrophenol	--		1000 U	5300 U	270 U	270 U
Acenaphthene	20000		580 U	3000 U	150 U	150 U

Table 6. Summary of Semivolatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-6DUP	SB-6	SB-6	SB-7
		Sample Date:	2/4/2014	2/10/2014	2/10/2014	2/10/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	36-38
Acenaphthylene	100000		180 J	3000 U	150 U	150 U
Acetophenone	--		720 U	3800 U	190 U	190 U
Anthracene	100000		160 J	2300 U	120 U	120 U
Benzo[a]anthracene	1000		520	810 J	120 U	120 U
Benzo[a]pyrene	1000		500 J	3000 U	150 U	150 U
Benzo[b]fluoranthene	1000		620	1000 J	120 U	120 U
Benzo[g,h,i]perylene	100000		340 J	3000 U	150 U	150 U
Benzo[k]fluoranthene	800		230 J	2300 U	120 U	120 U
Benzoic Acid	--		2300 U	12000 U	620 U	620 U
Benzyl Alcohol	--		720 U	3800 U	190 U	190 U
Bis(2-chloroethoxy)methane	--		780 U	4100 U	210 U	210 U
Bis(2-chloroethyl) ether	--		650 U	3400 U	170 U	170 U
Bis(2-ethylhexyl) phthalate	--		720 U	3800 U	190 U	190 U
Butylbenzyl phthalate	--		720 U	3800 U	190 U	190 U
Carbazole	--		720 U	3800 U	190 U	190 U
Chrysene	1000		490	930 J	120 U	120 U
Dibenzo[a,h]anthracene	330		430 U	2300 U	120 U	120 U
Dibenzofuran	7000		720 U	3800 U	190 U	190 U
Diethyl phthalate	--		720 U	3800 U	190 U	190 U
Dimethyl phthalate	--		720 U	3800 U	190 U	190 U
Di-n-butyl phthalate	--		720 U	3800 U	190 U	190 U
Di-n-octyl phthalate	--		720 U	3800 U	190 U	190 U
Fluoranthene	100000		800	1600 J	120 U	120 U
Fluorene	30000		720 U	3800 U	190 U	190 U
Hexachlorobenzene	330		430 U	2300 U	120 U	120 U
Hexachlorobutadiene	--		720 U	3800 U	190 U	190 U
Hexachlorocyclopentadiene	--		2100 U	11000 U	550 U	550 U
Hexachloroethane	--		580 U	3000 U	150 U	150 U
Indeno[1,2,3-cd]pyrene	500		330 J	3000 U	150 U	150 U
Isophorone	--		650 U	3400 U	170 U	170 U
Naphthalene	12000		720 U	3800 U	190 U	190 U

Table 6. Summary of Semivolatile Organic Compounds in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-6DUP	SB-6	SB-6	SB-7
		Sample Date:	2/4/2014	2/10/2014	2/10/2014	2/10/2014
		Sample Depth (ft bls):	0-2	7-10	30-32	36-38
Nitrobenzene	--		650 U	3400 U	170 U	170 U
n-Nitrosodi-n-propylamine	--		720 U	3800 U	190 U	190 U
n-Nitrosodiphenylamine	--		580 U	3000 U	150 U	150 U
Pentachlorophenol	800		580 U	3000 U	150 U	150 U
Phenanthrene	100000		490	960 J	120 U	120 U
Phenol	330		720 U	3800 U	190 U	190 U
Pyrene	100000		670	1400 J	120 U	120 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Table 7. Summary of Metals in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-1 2/6/2014 0-2	SB-1 2/7/2014 7-10	SB-1 2/7/2014 30-32	SB-2 2/6/2014 0-2	SB-2 2/7/2014 7-10	SB-2 2/7/2014 30-32	SB-3 2/6/2014 7-10	SB-3 2/7/2014 30-32	SB-4 2/4/2014 0-2
Aluminum	--		4400	6100	2100	5500	5100	3600	3900	2900	4400
Antimony	--		4.3 U	4.4 U	4.6 U	1.6 J	4.5 U	4.4 U	0.84 J	4.6 U	4.2 U
Arsenic	13		12	2.6	0.92 U	8.2	2.9	0.48 J	3.8	0.48 J	10
Barium	350		28	48	20	49	35	31	28	29	30
Beryllium	7.2		0.17 J	0.28 J	0.15 J	0.2 J	0.21 J	0.3 J	0.16 J	0.2 J	0.15 J
Cadmium	2.5		0.87	0.78 J	0.27 J	0.29 J	0.67 J	0.44 J	0.16 J	0.37 J	0.83 U
Calcium	--		60000	11000	660	37000	27000	7500	12000	800	52000
Chromium	30		24	12	6.1	**190**	10	8.3	9.3	7.1	**31**
Cobalt	--		2.7	4.3	2.3	4.5	3.2	3.4	3.9	3.3	3.1
Copper	50		32	**150**	5.3	**68**	**58**	8.2	25	7.5	29
Iron	--		7700	11000	5000	11000	8700	8700	7600	7000	7900
Lead	63		26	**65**	2 J	**100**	**100**	4.7	55	3 J	21
Magnesium	--		12000	2000	910	6400	5800	2800	2300	1300	10000
Manganese	1600		100	180	220	350	140	380	110	300	110
Mercury	0.18		0.07 U	0.1	0.1 U	**0.32**	0.18	0.09 U	0.13	0.09 U	0.08 U
Nickel	30		8	9.8	6.6	14	7.4	8.2	8.1	8.4	7.8
Potassium	--		580	800	470	870	650	1100	470	730	790
Selenium	3.9		1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U
Silver	2		0.86 U	0.88 U	0.92 U	0.88 U	0.89 U	0.87 U	0.86 U	0.91 U	0.83 U
Sodium	--		380	240	100 J	590	220	130 J	340	120 J	490
Thallium	--		1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U
Vanadium	--		17	15	6.2	20	16	11	23	8.5	14
Zinc	109		**230**	**300**	8.4	**200**	**120**	15	55	13	32

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Table 7. Summary of Metals in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-4 2/10/2014 6-8.5	SB-4 2/10/2014 30-32	SB-5 2/6/2014 7-10	SB-5 2/6/2014 30-32	SB-6 2/4/2014 0-2	SB-6DUP 2/4/2014 0-2	SB-6 2/10/2014 7-10	SB-6 2/10/2014 30-32	SB-7 2/10/2014 36-38
Aluminum	--		2700	3400	5400	2800	4500	4500	5700	2200	2400
Antimony	--		4.6 U	4.5 U	4.3 U	4.3 U	4.3 U	4.2 U	4.4 U	4.6 U	4.5 U
Arsenic	13		0.49 J	1.9	5.6	3.6	7	7.8	2.6	0.93 U	0.23 J
Barium	350		24	23	39	25	33	33	33	21	26
Beryllium	7.2		0.17 J	0.14 J	0.22 J	0.21 J	0.16 J	0.16 J	0.23 J	0.18 J	0.16 J
Cadmium	2.5		0.31 J	0.44 J	0.1 J	0.86 U	0.85 U	0.85 U	0.58 J	0.29 J	0.33 J
Calcium	--		630	23000	39000	1100	42000	44000	27000	580	830
Chromium	30		7	7.7	13	8.8	25	20	11	7.1	7.4
Cobalt	--		2.6	1.8	3.4	3.1	2.6	2.7	3.2	2.3	2.8
Copper	50		7.1	17	33	7.8	15	14	29	5.9	7.5
Iron	--		6100	5800	8200	7500	6200	6900	8300	5900	6400
Lead	63		2.5 J	26	62	2.6 J	28	30	46	2.9 J	2.5 J
Magnesium	--		1200	2400	5800	1500	2900	5700	4500	1100	1500
Manganese	1600		210	110	150	170	110	110	140	150	170
Mercury	0.18		0.09	0.09 U	0.06 J	0.08 U	0.07 U	0.02 J	0.1	0.08 U	0.09 U
Nickel	30		8.9	4.4	8.8	9.2	7.2	7	7.1	8	9.5
Potassium	--		630	500	570	740	780	750	760	520	560
Selenium	3.9		1.8 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U
Silver	2		0.91 U	0.9 U	0.87 U	0.86 U	0.85 U	0.85 U	0.88 U	0.93 U	0.89 U
Sodium	--		120 J	350	420	170	440	400	570	110 J	210
Thallium	--		1.8 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U
Vanadium	--		7.7	10	17	10	15	16	18	7.2	10
Zinc	109		11	58	**230**	19	36	37	89	8.7	10

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Table 8. Summary of Polychlorinated Biphenyls in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-1 2/6/2014 0-2	SB-1 2/7/2014 7-10	SB-2 2/6/2014 0-2	SB-2 2/7/2014 7-10	SB-3 2/6/2014 7-10	SB-4 2/10/2014 6-8.5	SB-4 2/4/2014 0-2
Aroclor-1016	--		34.6 U	35.7 U	35.3 U	37 U	36.1 U	37.9 U	70.6 U
Aroclor-1221	--		34.6 U	35.7 U	35.3 U	37 U	36.1 U	37.9 U	70.6 U
Aroclor-1232	--		34.6 U	35.7 U	35.3 U	37 U	36.1 U	37.9 U	70.6 U
Aroclor-1242	--		34.6 U	35.7 U	35.3 U	37 U	40.8	37.9 U	486
Aroclor-1248	--		34.6 U	35.7 U	35.3 U	37 U	36.1 U	37.9 U	70.6 U
Aroclor-1254	--		165	35.7 U	35.3 U	37 U	36.1 U	37.9 U	319
Aroclor-1260	--		23.7 J	10.4 J	24.8 J	9.04 J	10.3 J	12.7 J	70.6 U
Aroclor-1262	--		34.6 U	35.7 U	35.3 U	37 U	36.1 U	37.9 U	70.6 U
Aroclor-1268	--		34.6 U	35.7 U	35.3 U	37 U	36.1 U	37.9 U	70.6 U
Total PCBs	100		**188.7**	10.4	24.8	9.04	51.1	12.7	**805**

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
PCBs - Polychlorinated Biphenyls

Table 8. Summary of Polychlorinated Biphenyls in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	SB-5 2/6/2014 7-10	SB-6 2/4/2014 0-2	SB-6DUP 2/4/2014 0-2	SB-6 2/10/2014 7-10
Aroclor-1016	--		37.6 U	34.5 U	34.9 U	36.2 U
Aroclor-1221	--		37.6 U	34.5 U	34.9 U	36.2 U
Aroclor-1232	--		37.6 U	34.5 U	34.9 U	36.2 U
Aroclor-1242	--		37.6 U	34.5 U	34.9 U	36.2 U
Aroclor-1248	--		37.6 U	34.5 U	34.9 U	36.2 U
Aroclor-1254	--		37.6 U	376	171	36.2 U
Aroclor-1260	--		25.4 J	34.5 U	34.9 U	9.4 J
Aroclor-1262	--		37.6 U	34.5 U	34.9 U	36.2 U
Aroclor-1268	--		37.6 U	34.5 U	34.9 U	36.2 U
Total PCBs	100		25.4	**376**	**171**	9.4

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
PCBs - Polychlorinated Biphenyls

Table 9. Summary of Pesticides in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	SB-1 2/6/2014 0-2	SB-1 2/7/2014 7-10	SB-2 2/6/2014 0-2	SB-2 2/7/2014 7-10	SB-3 2/6/2014 7-10	SB-4 2/4/2014 0-2	SB-4 2/10/2014 6-8.5	SB-5 2/6/2014 7-10
4,4'-DDD	3.3		1.65 U	34.9 U	1.67 U	35.8 U	1.76 U	1.69 U	35.7 U	1.79 U
4,4'-DDE	3.3		1.65 U	34.9 U	1.67 U	**10.3 J**	1.76 U	**4.76 P**	35.7 U	1.79 U
4,4'-DDT	3.3		3.1 U	65.4 U	3.12 U	67.2 U	3.29 U	**7.38 P**	66.9 U	3.35 U
Aldrin	5		1.65 U	34.9 U	1.67 U	35.8 U	1.76 U	1.69 U	35.7 U	1.79 U
alpha-BHC	20		0.688 U	14.5 U	0.694 U	14.9 U	0.732 U	0.704 U	14.9 U	0.745 U
alpha-Chlordane	94		14.7 P	43.6 U	18.7 P	29.5 J	2.19 U	15.5 P	20.6 J	10.8
beta-BHC	36		1.65 U	34.9 U	1.67 U	35.8 U	1.76 U	1.69 U	35.7 U	1.79 U
Chlordane	--		109	283 U	107	233 J	14.3 U	114	188 J	113
delta-BHC	40		1.65 U	34.9 U	1.67 U	35.8 U	1.76 U	1.69 U	35.7 U	1.79 U
Dieldrin	5		1.03 U	21.8 U	1.04 U	22.4 U	1.1 U	4.77	22.3 U	1.12 U
Endosulfan I	2400		1.65 U	34.9 U	1.67 U	35.8 U	1.76 U	1.69 U	35.7 U	1.79 U
Endosulfan II	2400		1.65 U	34.9 U	1.67 U	35.8 U	1.76 U	4.99 P	35.7 U	1.79 U
Endosulfan sulfate	2400		0.688 U	14.5 U	0.694 U	14.9 U	0.732 U	0.704 U	14.9 U	0.745 U
Endrin ketone	--		1.65 U	34.9 U	1.67 U	35.8 U	1.76 U	1.69 U	35.7 U	1.79 U
Endrin	14		0.688 U	14.5 U	0.694 U	14.9 U	0.732 U	0.704 U	14.9 U	0.745 U
gamma-BHC (Lindane)	100		0.688 U	14.5 U	0.694 U	14.9 U	0.732 U	3.02 P	14.9 U	0.745 U
gamma-Chlordane	--		10 P	13 J	10.4	27.5 J	2.19 U	9.13	22.8 J	11.4 P
Heptachlor epoxide	--		3.1 U	65.4 U	3.12 U	67.2 U	3.29 U	9.1 P	66.9 U	3.35 U
Heptachlor	42		2.5	17.4 U	2.28	17.9 U	0.878 U	5.26 P	17.8 U	2.46
Methoxychlor	--		3.1 U	65.4 U	3.12 U	67.2 U	3.29 U	3.17 U	66.9 U	3.35 U
Toxaphene	--		31 U	654 U	31.2 U	672 U	32.9 U	31.7 U	669 U	33.5 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Table 9. Summary of Pesticides in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-1	SB-1	SB-2	SB-2	SB-3	SB-4	SB-4	SB-5
		Sample Date:	2/6/2014	2/7/2014	2/6/2014	2/7/2014	2/6/2014	2/4/2014	2/10/2014	2/6/2014
		Sample Depth (ft bls):	0-2	7-10	0-2	7-10	7-10	0-2	6-8.5	7-10

P - The RPD between the results for the two columns exceeds the method-specified criteria.

RPD - Relative Percent Difference

Table 9. Summary of Pesticides in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	SB-6 2/4/2014 0-2	SB-6DUP 2/4/2014 0-2	SB-6 2/10/2014 7-10
4,4'-DDD	3.3		1.68 U	1.7 U	35.5 U
4,4'-DDE	3.3		**5.81**	**4.6**	35.5 U
4,4'-DDT	3.3		**8.96 P**	**6.66 P**	66.5 U
Aldrin	5		0.775 J	1.7 U	35.5 U
alpha-BHC	20		0.698 U	0.707 U	14.8 U
alpha-Chlordane	94		25.5 P	23.4 P	32.3 J
beta-BHC	36		1.68 U	1.7 U	35.5 U
Chlordane	--		158	128	201 J
delta-BHC	40		1.68 U	1.7 U	35.5 U
Dieldrin	5		**7.28**	**5.5**	22.2 U
Endosulfan I	2400		1.68 U	1.7 U	35.5 U
Endosulfan II	2400		5.39 P	1.7 U	35.5 U
Endosulfan sulfate	2400		0.698 U	0.707 U	14.8 U
Endrin ketone	--		1.68 U	1.7 U	35.5 U
Endrin	14		0.698 U	0.707 U	14.8 U
gamma-BHC (Lindane)	100		0.698 U	0.707 U	14.8 U
gamma-Chlordane	--		15.6	13.7	24.5 J
Heptachlor epoxide	--		6.38	4.65	66.5 U
Heptachlor	42		4	2.82	17.7 U
Methoxychlor	--		3.14 U	3.18 U	66.5 U
Toxaphene	--		31.4 U	31.8 U	665 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Table 9. Summary of Pesticides in Soil, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	**Sample Designation:**	SB-6	SB-6DUP	SB-6
		Sample Date:	2/4/2014	2/4/2014	2/10/2014
		Sample Depth (ft bls):	0-2	0-2	7-10

P - The RPD between the results for the two columns exceeds the method-specified criteria.

RPD - Relative Percent Difference

Table 10. Summary of Volatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-2 12/18/2013	MW-3 12/18/2013	MW-5 12/16/2013	MW-7 12/18/2013	SB-1/TP-1 2/7/2014
Benzene	1		0.5 U	**7.1**	**380**	**100**	**210**
Toluene	5		2.5 U	1 J	**29 J**	**6.8**	25 U
Ethylbenzene	5		2.5 U	**12**	**1400**	**130**	**20 J**
m+p-Xylene	5		2.5 U	**8.5**	**720**	**120**	25 U
o-Xylene	5		2.5 U	**23**	**62**	**22**	25 U
Total BTEX			0	51.6	2591	378.8	230
1,1,1,2-Tetrachloroethane	5		2.5 U	2.5 U	62 U	5 U	25 U
1,1,1-Trichloroethane	5		2.5 U	2.5 U	62 U	5 U	25 U
1,1,2,2-Tetrachloroethane	5		0.5 U	0.5 U	12 U	1 U	5 U
1,1,2-Trichloroethane	1		1.5 U	1.5 U	38 U	3 U	15 U
1,1-Dichloroethane	5		2.5 U	2.5 U	62 U	5 U	25 U
1,1-Dichloroethene	5		0.5 U	0.5 U	12 U	1 U	5 U
1,1-Dichloropropene	5		2.5 U	2.5 U	62 U	5 U	25 U
1,2,3-Trichlorobenzene	5		2.5 U	2.5 U	62 U	5 U	25 U
1,2,3-Trichloropropane	0.04		2.5 U	2.5 U	62 U	5 U	25 U
1,2,4,5-Tetramethylbenzene	5		2 U	4.5	**110**	**65**	110
1,2,4-Trichlorobenzene	5		2.5 U	2.5 U	62 U	5 U	25 U
1,2,4-Trimethylbenzene	5		2.5 U	**22**	**1800**	**73**	25 U
1,2-Dibromoethane	--		2 U	2 U	50 U	4 U	20 U
1,2-Dichlorobenzene	3		2.5 U	2.5 U	62 U	5 U	25 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	12 U	1 U	5 U
1,2-Dichloropropane	1		1 U	1 U	25 U	2 U	10 U
1,3,5-Trimethylbenzene	5		2.5 U	2.5 U	**450**	4 J	25 U
1,3-Dichlorobenzene	3		2.5 U	2.5 U	62 U	5 U	25 U
1,3-Dichloropropane	5		2.5 U	2.5 U	62 U	5 U	25 U
1,4-Dichlorobenzene	3		2.5 U	2.5 U	62 U	5 U	25 U
1,4-Dioxane	--		250 U	250 U	6200 U	500 U	2500 U
2,2-Dichloropropane	5		2.5 U	2.5 U	62 U	5 U	25 U
2-Butanone (MEK)	50		5 U	5 U	120 U	10 U	50 U
2-Hexanone	50		5 U	5 U	120 U	10 U	50 U
4-Ethyltoluene	--		2 U	3	340	19	20 U

Table 10. Summary of Volatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-2 12/18/2013	MW-3 12/18/2013	MW-5 12/16/2013	MW-7 12/18/2013	SB-1/TP-1 2/7/2014
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U	120 U	10 U	50 U
Acetone	50		5 U	5 U	41 J	10 U	50 U
Acrylonitrile	5		5 U	5 U	120 U	10 U	50 U
BENZENE, 1,4-DIETHYL	-		2 U	2 U	180	12	28
Bromobenzene	5		2.5 U	2.5 U	62 U	5 U	25 U
Bromochloromethane	5		2.5 U	2.5 U	62 U	5 U	25 U
Bromodichloromethane	50		0.5 U	0.5 U	12 U	1 U	5 U
Bromoform	50		2 U	2 U	50 U	4 U	20 U
Bromomethane	5		2.5 U	2.5 U	62 U	5 U	25 U
Carbon disulfide	60		5 U	5 U	120 U	10 U	50 U
Carbon tetrachloride	5		0.5 U	0.5 U	12 U	1 U	5 U
Chlorobenzene	5		2.5 U	2.5 U	62 U	5 U	25 U
Chloroethane	5		2.5 U	2.5 U	62 U	5 U	25 U
Chloroform	7		2.5 U	2.5 U	62 U	5 U	25 U
Chloromethane	--		2.5 U	2.5 U	62 U	5 U	25 U
cis-1,2-Dichloroethene	5		2.5 U	2.5 U	62 U	5 U	25 U
cis-1,3-Dichloropropene	5		0.5 U	0.5 U	12 U	1 U	5 U
Dibromochloromethane	50		0.5 U	0.5 U	12 U	1 U	5 U
Dibromochloropropane	--		2.5 U	2.5 U	62 U	5 U	25 U
Dibromomethane	5		5 U	5 U	120 U	10 U	50 U
Dichlorodifluoromethane	5		5 U	5 U	120 U	10 U	50 U
Diethyl Ether	--		2.5 U	2.5 U	62 U	5 U	25 U
Hexachlorobutadiene	0.5		2.5 U	2.5 U	62 U	5 U	25 U
Isopropylbenzene	5		2.5 U	**5.6**	**88**	**50**	**98**
Methylene chloride	5		2.5 U	2.5 U	62 U	5 U	25 U
MTBE	10		1.7 J	1.2 J	62 U	**26**	25 U
Naphthalene	10		2.5 U	3.4	**650**	**42**	25 U
n-Butylbenzene	5		2.5 U	0.7 J	**20 J**	**5.8**	**32**
n-Propylbenzene	5		2.5 U	**8.7**	**200**	**81**	**330**
o-Chlorotoluene	--		2.5 U	2.5 U	62 U	5 U	25 U
p-Chlorotoluene	--		2.5 U	2.5 U	62 U	5 U	25 U
p-Isopropyltoluene	5		2.5 U	2.5 U	62 U	5 U	**7.2 J**
sec-Butylbenzene	5		2.5 U	2.5 U	62 U	**6.2**	**15 J**

Table 10. Summary of Volatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-2 12/18/2013	MW-3 12/18/2013	MW-5 12/16/2013	MW-7 12/18/2013	SB-1/TP-1 2/7/2014
Styrene	5		2.5 U	2.5 U	62 U	5 U	25 U
t-Butyl Alcohol	--		10 U	18	250 U	150	21 J
tert-Butylbenzene	5		2.5 U	2.5 U	62 U	5 U	25 U
Tetrachloroethene	5		0.5 U	0.5 U	12 U	1 U	5 U
trans-1,2-Dichloroethene	5		2.5 U	2.5 U	62 U	5 U	25 U
trans-1,3-Dichloropropene	--		0.5 U	0.5 U	12 U	1 U	5 U
trans-1,4-Dichloro-2-butene	--		2.5 U	2.5 U	62 U	5 U	25 U
Trichloroethene	5		0.5 U	0.5 U	12 U	1 U	5 U
Trichlorofluoromethane	5		2.5 U	2.5 U	62 U	5 U	25 U
Vinyl acetate	--		5 U	5 U	120 U	10 U	50 U
Vinyl chloride	2		1 U	1 U	25 U	2 U	10 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs
NA - Compound was not analyzed by laboratory
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes

Table 10. Summary of Volatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FIELD BLANK FB-020714 2/7/2014	FIELD BLANK 2/10/2014	FIELD BLANK 2/4/2014	FIELD BLANK 2/6/2014
Benzene	1		0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5		2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
m+p-Xylene	5		2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	5		2.5 U	2.5 U	2.5 U	2.5 U
Total BTEX			0	0	0	0
1,1,1,2-Tetrachloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5		0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1		1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5		2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04		2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5		2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	--		2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5		2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dioxane	--		250 U	250 U	250 U	250 U
2,2-Dichloropropane	5		2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone (MEK)	50		5 U	5 U	5 U	5 U
2-Hexanone	50		5 U	5 U	5 U	5 U
4-Ethyltoluene	--		2 U	2 U	2 U	2 U

Table 10. Summary of Volatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FIELD BLANK FB-020714 2/7/2014	FIELD BLANK 2/10/2014	FIELD BLANK 2/4/2014	FIELD BLANK 2/6/2014
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U	5 U	5 U
Acetone	50		5 U	1.6 J	5 U	5 U
Acrylonitrile	5		5 U	5 U	5 U	5 U
BENZENE, 1,4-DIETHYL	-		2 U	2 U	2 U	2 U
Bromobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5		2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50		0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50		2 U	2 U	2 U	2 U
Bromomethane	5		2.5 U	2.5 U	2.5 U	2.5 U
Carbon disulfide	60		5 U	5 U	5 U	5 U
Carbon tetrachloride	5		0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7		2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	--		2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	5		0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50		0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloropropane	--		2.5 U	2.5 U	2.5 U	2.5 U
Dibromomethane	5		5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5		5 U	5 U	5 U	5 U
Diethyl Ether	--		2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5		2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5		2.5 U	2.5 U	2.5 U	2.5 U
MTBE	10		2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10		2.5 U	2.5 U	2.5 U	2.5 U
n-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
n-Propylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
o-Chlorotoluene	--		2.5 U	2.5 U	2.5 U	2.5 U
p-Chlorotoluene	--		2.5 U	2.5 U	2.5 U	2.5 U
p-Isopropyltoluene	5		2.5 U	2.5 U	2.5 U	2.5 U
sec-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U

Table 10. Summary of Volatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FIELD BLANK FB-020714 2/7/2014	FIELD BLANK 2/10/2014	FIELD BLANK 2/4/2014	FIELD BLANK 2/6/2014
Styrene	5		2.5 U	2.5 U	2.5 U	2.5 U
t-Butyl Alcohol	--		10 U	10 U	NA	10 U
tert-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	--		0.5 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	--		2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5		2.5 U	2.5 U	2.5 U	2.5 U
Vinyl acetate	--		5 U	5 U	5 U	5 U
Vinyl chloride	2		1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs
NA - Compound was not analyzed by laboratory
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes

Table 10. Summary of Volatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	TRIP BLANK 2/10/2014	TRIP BLANK 2/4/2014	TRIP BLANK 2/6/2014	TRIP BLANK 2/7/2014	TRIP BLANK 2/7/2014
Benzene	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m+p-Xylene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total BTEX			0	0	0	0	0
1,1,1,2-Tetrachloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1		1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5		2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	--		2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dioxane	--		250 U	250 U	250 U	250 U	250 U
2,2-Dichloropropane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone (MEK)	50		5 U	5 U	5 U	5 U	5 U
2-Hexanone	50		5 U	5 U	5 U	5 U	5 U
4-Ethyltoluene	--		2 U	2 U	2 U	2 U	2 U

Table 10. Summary of Volatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	TRIP BLANK 2/10/2014	TRIP BLANK 2/4/2014	TRIP BLANK 2/6/2014	TRIP BLANK 2/7/2014	TRIP BLANK 2/7/2014
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U	5 U	5 U	5 U
Acetone	50		2 J	5 U	5 U	5 U	5 U
Acrylonitrile	5		5 U	5 U	5 U	5 U	5 U
BENZENE, 1,4-DIETHYL	-		2 U	2 U	2 U	2 U	2 U
Bromobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50		2 U	2 U	2 U	2 U	2 U
Bromomethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon disulfide	60		5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloropropane	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromomethane	5		5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5		5 U	5 U	5 U	5 U	5 U
Diethyl Ether	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
MTBE	10		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Propylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Chlorotoluene	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p-Chlorotoluene	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p-Isopropyltoluene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
sec-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 10. Summary of Volatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	TRIP BLANK 2/10/2014	TRIP BLANK 2/4/2014	TRIP BLANK 2/6/2014	TRIP BLANK 2/7/2014	TRIP BLANK 2/7/2014
Styrene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
t-Butyl Alcohol	--		10 U	NA	10 U	10 U	10 U
tert-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl acetate	--		5 U	5 U	5 U	5 U	5 U
Vinyl chloride	2		1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs
NA - Compound was not analyzed by laboratory
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes

Table 11. Summary of Semivolatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-2 2/7/2014	MW-3 2/7/2014	MW-5 2/7/2014	MW-7 2/7/2014	MW-7DUP 2/7/2014	SB-1/TP-1 2/7/2014
1,1'-Biphenyl	--		2 U	2 U	2 U	2 U	2 U	2 U
1,2,4,5-Tetrachlorobenzene	--		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
2,2'-oxybis (1-chloropropane)	5		2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50		5 U	5 U	8	5 U	5 U	5 U
2,4-Dinitrophenol	10		20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5		5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5		5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol	--		2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	--		0.4 U	0.4 U	90	1	1	17
2-Methylphenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	--		10 U	10 U	10 U	10 U	10 U	10 U
3&4-Methylphenol	--		5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5		5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-methylphenol	--		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-methylphenol	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl phenyl ether	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	--		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20		0.4 U	0.4 U	4 U	0.21 J	0.19 J	0.22 J
Acenaphthylene	20		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Acetophenone	--		5 U	5 U	5 U	5 U	5 U	5 U

Table 11. Summary of Semivolatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-2 2/7/2014	MW-3 2/7/2014	MW-5 2/7/2014	MW-7 2/7/2014	MW-7DUP 2/7/2014	SB-1/TP-1 2/7/2014
Anthracene	50		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Benzo[a]anthracene	0.002		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Benzo[a]pyrene	0		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Benzo[b]fluoranthene	0.002		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Benzo[g,h,i]perylene	--		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Benzo[k]fluoranthene	0.002		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Benzoic Acid	--		50 U	50 U	50 U	50 U	50 U	50 U
Benzyl Alcohol	--		2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	5		5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-chloroethyl) ether	--		2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-ethylhexyl) phthalate	5		3 U	3 U	2.3 J	3 U	2.3 J	3 U
Butylbenzyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Carbazole	--		2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	0.002		0.4 U	0.4 U	4 U	0.4 U	0.4 U	**0.11 J**
Dibenzo[a,h]anthracene	--		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Dibenzofuran	--		2 U	2 U	2 U	2 U	2 U	2 U
Diethyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-octyl phthalate	--		5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.14 J
Fluorene	50		0.4 U	0.4 U	4 U	0.18 J	0.17 J	0.28 J
Hexachlorobenzene	0.04		1.6 U	1.6 U	16 U	1.6 U	1.6 U	1.6 U
Hexachlorobutadiene	0.5		1 U	1 U	10 U	1 U	1 U	1 U
Hexachlorocyclopentadiene	5		20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	5		1.6 U	1.6 U	16 U	1.6 U	1.6 U	1.6 U
Indeno[1,2,3-cd]pyrene	0.002		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Isophorone	50		5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10		0.4 U	0.31 J	**280**	**14**	10	1.7
Nitrobenzene	0.4		2 U	2 U	2 U	2 U	2 U	2 U
n-Nitrosodi-n-propylamine	--		5 U	5 U	5 U	5 U	5 U	5 U
n-Nitrosodiphenylamine	50		2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	1		1.6 U	1.6 U	**9.3 J**	1.6 U	1.6 U	1.6 U

Table 11. Summary of Semivolatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-2 2/7/2014	MW-3 2/7/2014	MW-5 2/7/2014	MW-7 2/7/2014	MW-7DUP 2/7/2014	SB-1/TP-1 2/7/2014
Phenanthrene	50		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.54
Phenol	1		5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	50		0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.16 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
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DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 11. Summary of Semivolatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FIELD BLANK FB-020714 2/7/2014	FIELD BLANK 2/10/2014	FIELD BLANK 2/4/2014	FIELD BLANK 2/6/2014
1,1'-Biphenyl	--		2 U	2 U	2 U	2 U
1,2,4,5-Tetrachlorobenzene	--		10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5		5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3		2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	3		2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	3		2 U	2 U	2 U	2 U
2,2'-oxybis (1-chloropropane)	5		2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	--		5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	--		5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5		5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50		5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10		20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5		5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5		5 U	5 U	5 U	5 U
2-Chloronaphthalene	10		0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	--		2 U	2 U	2 U	2 U
2-Methylnaphthalene	--		0.2 U	0.2 U	0.2 U	0.2 U
2-Methylphenol	--		5 U	5 U	5 U	5 U
2-Nitroaniline	5		5 U	5 U	5 U	5 U
2-Nitrophenol	--		10 U	10 U	10 U	10 U
3&4-Methylphenol	--		5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5		5 U	5 U	5 U	5 U
3-Nitroaniline	5		5 U	5 U	5 U	5 U
4,6-Dinitro-2-methylphenol	--		10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	--		2 U	2 U	2 U	2 U
4-Chloro-3-methylphenol	--		2 U	2 U	2 U	2 U
4-Chloroaniline	5		5 U	5 U	5 U	5 U
4-Chlorophenyl phenyl ether	--		2 U	2 U	2 U	2 U
4-Nitroaniline	5		5 U	5 U	5 U	5 U
4-Nitrophenol	--		10 U	10 U	10 U	10 U
Acenaphthene	20		0.2 U	0.2 U	0.2 U	0.2 U
Acenaphthylene	20		0.2 U	0.2 U	0.2 U	0.2 U
Acetophenone	--		5 U	5 U	5 U	5 U

Table 11. Summary of Semivolatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FIELD BLANK FB-020714 2/7/2014	FIELD BLANK 2/10/2014	FIELD BLANK 2/4/2014	FIELD BLANK 2/6/2014
Anthracene	50		0.2 U	0.2 U	0.2 U	0.2 U
Benzo[a]anthracene	0.002		0.2 U	0.2 U	0.2 U	0.2 U
Benzo[a]pyrene	0		0.2 U	0.2 U	0.2 U	0.2 U
Benzo[b]fluoranthene	0.002		0.2 U	0.2 U	0.2 U	0.2 U
Benzo[g,h,i]perylene	--		0.2 U	0.2 U	0.2 U	0.2 U
Benzo[k]fluoranthene	0.002		0.2 U	0.2 U	0.2 U	0.2 U
Benzoic Acid	--		50 U	50 U	50 U	50 U
Benzyl Alcohol	--		2 U	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	5		5 U	5 U	5 U	5 U
Bis(2-chloroethyl) ether	--		2 U	2 U	2 U	2 U
Bis(2-ethylhexyl) phthalate	5		3 U	3 U	3 U	3 U
Butylbenzyl phthalate	50		5 U	5 U	5 U	5 U
Carbazole	--		2 U	2 U	2 U	2 U
Chrysene	0.002		0.2 U	0.2 U	0.2 U	0.2 U
Dibenzo[a,h]anthracene	--		0.2 U	0.2 U	0.2 U	0.2 U
Dibenzofuran	--		2 U	2 U	2 U	2 U
Diethyl phthalate	50		5 U	5 U	5 U	5 U
Dimethyl phthalate	50		5 U	5 U	5 U	5 U
Di-n-butyl phthalate	50		5 U	5 U	5 U	5 U
Di-n-octyl phthalate	--		5 U	5 U	5 U	5 U
Fluoranthene	50		0.2 U	0.2 U	0.2 U	0.2 U
Fluorene	50		0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobenzene	0.04		0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5		0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5		20 U	20 U	20 U	20 U
Hexachloroethane	5		0.8 U	0.8 U	0.8 U	0.8 U
Indeno[1,2,3-cd]pyrene	0.002		0.2 U	0.2 U	0.2 U	0.2 U
Isophorone	50		5 U	5 U	5 U	5 U
Naphthalene	10		0.07 J	0.07 J	0.08 J	0.2 U
Nitrobenzene	0.4		2 U	2 U	2 U	2 U
n-Nitrosodi-n-propylamine	--		5 U	5 U	5 U	5 U
n-Nitrosodiphenylamine	50		2 U	2 U	2 U	2 U
Pentachlorophenol	1		0.8 U	0.8 U	0.8 U	0.8 U

Table 11. Summary of Semivolatile Organic Compounds in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FIELD BLANK FB-020714 2/7/2014	FIELD BLANK 2/10/2014	FIELD BLANK 2/4/2014	FIELD BLANK 2/6/2014
Phenanthrene	50		0.2 U	0.2 U	0.2 U	0.2 U
Phenol	1		5 U	5 U	5 U	5 U
Pyrene	50		0.2 U	0.2 U	0.2 U	0.2 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 12. Summary of Metals in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-2 2/7/2014	MW-2 2/7/2014 Dissolved	MW-3 2/7/2014	MW-3 2/7/2014 Dissolved	MW-5 2/7/2014	MW-5 2/7/2014 Dissolved	MW-7 2/7/2014
Aluminum	--		236	12.6 J	22.4	11.7 J	17700	4 J	110
Antimony	3		1.47 J	1.08 J	0.73 J	0.76 J	0.49 J	0.29 J	2 U
Arsenic	25		8.77	6.62	9.35	8.78	18.97	15.65	4.44
Barium	1000		121.2	107.9	100.2	107.9	559.4	418.8	135.2
Beryllium	3		2 U	1 U	1 U	1 U	1.4	1 U	1 U
Cadmium	5		0.24 J	0.1 J	0.1 J	0.4 U	0.48	0.4 U	0.4 U
Calcium	--		262000	253000	382000	372000	133000	122000	109000
Chromium	50		3.48 J	1.45 J	1.32 J	2.17	38.18	0.98 J	1.1 J
Cobalt	--		1.4 J	1.01	1.25	1.46	13.2	0.31 J	0.65 J
Copper	200		18.12	6.4	16.67	4.65	81.76	0.61 J	1.87 J
Iron	300		**4110**	**2320**	**2940**	**2780**	**59900**	**35100**	**9890**
Lead	25		5.37	2 U	0.46 J	2 U	**49.54**	4.49	0.79 J
Magnesium	--		58000	56300	65200	77400	17900	13400	23100
Manganese	300		**2238**	**2110**	**719.4**	**731.6**	**3354**	**2234**	**4650**
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	0.09 J	0.2 U	0.2 U
Nickel	100		8.44	8.22	11.36	15.16	41.28	2.87	2.63
Potassium	--		36900	34300	43700	48800	17200	15200	27700
Selenium	10		5.06 J	4.1 J	3.96 J	4.58 J	3.42 J	1.68 J	2.82 J
Silver	50		1.6 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Sodium	20000		**749000**	**749000**	**409000**	**412000**	**549000**	**583000**	**421000**
Thallium	0.5		2 U	1 U	1 U	1 U	0.26 J	1 U	1 U
Vanadium	--		3.16 J	2.24 J	11.57	13.16	43.8	1.44 J	0.92 J
Zinc	2000		40.48	16.28 J	30.24	23.22	94.5	2.4 J	3.35 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 12. Summary of Metals in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-7 2/7/2014 Dissolved	MW-7DUP 2/7/2014	MW-7DUP 2/7/2014 Dissolved	SB-1/TP-1 2/7/2014	SB-1/TP-1 2/7/2014 Dissolved	FIELD BLANK FB-020714 2/7/2014
Aluminum	--		5.65 J	2340	11.6 J	2700	17.6 J	108
Antimony	3		2 U	2 U	2 U	1.1 J	0.47 J	0.23 J
Arsenic	25		4.18	8.62	4.97	11.04	9.93	0.28 J
Barium	1000		130.8	137.8	124.4	279.2	279.8	1.52
Beryllium	3		1 U	1 U	1 U	0.2 J	1 U	0.5 U
Cadmium	5		0.4 U	0.4 U	0.4 U	0.13 J	0.4 U	0.2 U
Calcium	--		117000	110000	114000	221000	249000	958
Chromium	50		0.75 J	6.11	0.7 J	6.88	0.69 J	0.74 J
Cobalt	--		0.39 J	2.85	0.34 J	4.66	3.01	0.5 U
Copper	200		0.54 J	9.29	0.75 J	144.4	1.83 J	1.15
Iron	300		**7760**	**20200**	**7370**	**12300**	**8470**	159
Lead	25		2 U	5.3	2 U	9.58	0.83 J	0.87 J
Magnesium	--		23500	23100	23200	33400	41600	98.4
Manganese	300		**4770**	**4564**	**4612**	**2158**	**2334**	3.52
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100		3.25	6.41	3.03	8.65	4.77	0.34 J
Potassium	--		27600	25800	26800	33700	35900	125
Selenium	10		2.91 J	3 J	2.91 J	4.58 J	3.97 J	0.3 J
Silver	50		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.4 U
Sodium	20000		**465000**	**423000**	**454000**	**370000**	**416000**	1080
Thallium	0.5		1 U	1 U	1 U	0.06 J	1 U	0.5 U
Vanadium	--		0.59 J	5.92 J	0.6 J	6.25 J	1.54 J	0.38 J
Zinc	2000		3.58 J	15.17 J	2.94 J	56.6	18.4 J	3.21 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 12. Summary of Metals in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FIELD BLANK 2/10/2014	FIELD BLANK 2/4/2014	FIELD BLANK 2/6/2014
Aluminum	--		2.16 J	10 U	5.24 J
Antimony	3		0.49 J	0.1 J	0.38 J
Arsenic	25		0.3 J	0.5 U	0.5 U
Barium	1000		0.18 J	0.13 J	0.99
Beryllium	3		0.5 U	0.5 U	0.5 U
Cadmium	5		0.2 U	0.2 U	0.2 U
Calcium	--		100 U	100 U	100 U
Chromium	50		0.49 J	0.51 J	0.49 J
Cobalt	--		0.5 U	0.5 U	0.5 U
Copper	200		0.18 J	0.32 J	0.25 J
Iron	300		20.7 J	14 J	50 U
Lead	25		1 U	1 U	1 U
Magnesium	--		70 U	70 U	70 U
Manganese	300		0.31 J	0.37 J	2.57
Mercury	0.7		0.2 U	0.2 U	0.2 U
Nickel	100		0.27 J	0.15 J	0.14 J
Potassium	--		100 U	100 U	100 U
Selenium	10		0.46 J	0.4 J	5 U
Silver	50		0.4 U	0.4 U	0.4 U
Sodium	20000		138 J	44.1 J	86.9 J
Thallium	0.5		0.05 J	0.5 U	0.5 U
Vanadium	--		5 U	5 U	5 U
Zinc	2000		1.46 J	10 U	1.77 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 13. Summary of Polychlorinated Biphenyls in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-2 2/7/2014	MW-3 2/7/2014	MW-5 2/7/2014	MW-7 2/7/2014	MW-7DUP 2/7/2014	SB-1/TP-1 2/7/2014	FIELD BLANK FB-020714 2/7/2014
Aroclor-1016	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1221	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1232	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1242	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1248	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1254	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1260	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1262	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1268	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09		0	0	0	0	0	0	0

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

DUP - Duplicate

- - No NYSDEC AWQSGV available

Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

PCBs - Polychlorinated Biphenyls

Table 13. Summary of Polychlorinated Biphenyls in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FIELD BLANK 2/10/2014	FIELD BLANK 2/4/2014	FIELD BLANK 2/6/2014
Aroclor-1016	--		0.083 U	0.083 U	0.083 U
Aroclor-1221	--		0.083 U	0.083 U	0.083 U
Aroclor-1232	--		0.083 U	0.083 U	0.083 U
Aroclor-1242	--		0.083 U	0.083 U	0.083 U
Aroclor-1248	--		0.083 U	0.083 U	0.083 U
Aroclor-1254	--		0.083 U	0.083 U	0.083 U
Aroclor-1260	--		0.083 U	0.083 U	0.083 U
Aroclor-1262	--		0.083 U	0.083 U	0.083 U
Aroclor-1268	--		0.083 U	0.083 U	0.083 U
Total PCBs	0.09		0	0	0

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

DUP - Duplicate

- - No NYSDEC AWQSGV available

Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

PCBs - Polychlorinated Biphenyls

Table 14. Summary of Pesticides in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-2 2/7/2014	MW-3 2/7/2014	MW-5 2/7/2014	MW-7 2/7/2014	MW-7DUP 2/7/2014	SB-1/TP-1 2/7/2014
4,4'-DDD	0.3		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	0.2		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	0.2		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Aldrin	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-Chlordane	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane	0.05		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
delta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan I	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan sulfate	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin ketone	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin	0		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
gamma-BHC (Lindane)	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-Chlordane	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toxaphene	0.06		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

DUP - Duplicate

- - No NYSDEC AWQSGV available

Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 14. Summary of Pesticides in Groundwater, 239 10th Avenue, New York, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FIELD BLANK FB-020714 2/7/2014	FIELD BLANK 2/10/2014	FIELD BLANK 2/4/2014	FIELD BLANK 2/6/2014
4,4'-DDD	0.3		0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	0.2		0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	0.2		0.04 U	0.04 U	0.04 U	0.04 U
Aldrin	0		0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U
alpha-Chlordane	--		0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U
Chlordane	0.05		0.2 U	0.2 U	0.2 U	0.2 U
delta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004		0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan I	--		0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	--		0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan sulfate	--		0.04 U	0.04 U	0.04 U	0.04 U
Endrin ketone	--		0.04 U	0.04 U	0.04 U	0.04 U
Endrin	0		0.04 U	0.04 U	0.04 U	0.04 U
gamma-BHC (Lindane)	--		0.02 U	0.02 U	0.02 U	0.02 U
gamma-Chlordane	0		0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03		0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04		0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35		0.2 U	0.2 U	0.2 U	0.2 U
Toxaphene	0.06		0.2 U	0.2 U	0.2 U	0.2 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

DUP - Duplicate

- - No NYSDEC AWQSGV available

Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 15. Summary of Volatile Organic Compounds in Soil Vapor, 239 10th Avenue, New York, New York

Parameter (Concentrations in ug/m^3)	**Sample Designation:** / **Sample Date:**	SV-1 2/7/2014	SV-2 2/7/2014	SV-3 2/7/2014
1,1,1-Trichloroethane		10.9 U	10.9 U	10.9 U
1,1,2,2-Tetrachloroethane		13.7 U	13.7 U	13.7 U
1,1,2-Trichloroethane		10.9 U	10.9 U	10.9 U
1,1-Dichloroethane		8.09 U	8.09 U	8.09 U
1,1-Dichloroethene		7.93 U	7.93 U	7.93 U
1,2,4-Trichlorobenzene		14.8 U	14.8 U	14.8 U
1,2,4-Trimethylbenzene		**10.1**	**1080**	**31.3**
1,2-Dibromoethane		15.4 U	15.4 U	15.4 U
1,2-Dichlorobenzene		12 U	12 U	12 U
1,2-Dichloroethane		8.09 U	8.09 U	8.09 U
1,2-Dichloropropane		9.24 U	9.24 U	9.24 U
1,3,5-Trimethylbenzene		**12.9**	**347**	**23.4**
1,3-Butadiene		4.42 U	4.42 U	4.42 U
1,3-Dichlorobenzene		12 U	12 U	12 U
1,4-Dichlorobenzene		12 U	12 U	12 U
1,4-Dioxane		7.21 U	7.21 U	7.21 U
2-Butanone (MEK)		5.9 U	5.9 U	5.9 U
2-Hexanone		8.2 U	8.2 U	8.2 U
3-Chloropropene		6.26 U	6.26 U	6.26 U
4-Ethyltoluene		9.83 U	**361**	**10.7**
4-Methyl-2-pentanone (MIBK)		8.2 U	8.2 U	8.2 U
Acetone		23.8 U	**33.5**	**119**
Benzene		6.39 U	**57.5**	**55.3**
Benzyl chloride		10.4 U	10.4 U	10.4 U
Bromodichloromethane		13.4 U	13.4 U	13.4 U
Bromoethene		8.74 U	8.74 U	8.74 U
Bromoform		20.7 U	20.7 U	20.7 U
Bromomethane		7.77 U	7.77 U	7.77 U
Carbon disulfide		**11.1**	**16.3**	6.23 U
Carbon tetrachloride		12.6 U	12.6 U	12.6 U
Chlorobenzene		9.21 U	9.21 U	9.21 U
Chloroethane		5.28 U	5.28 U	5.28 U
Chloroform		9.77 U	9.77 U	9.77 U
Chloromethane		4.13 U	4.13 U	4.13 U
cis-1,2-Dichloroethene		7.93 U	7.93 U	7.93 U
cis-1,3-Dichloropropene		9.08 U	9.08 U	9.08 U
Cyclohexane		**72.3**	**781**	**423**
Dibromochloromethane		17 U	17 U	17 U
Dichlorodifluoromethane		9.89 U	9.89 U	9.89 U
Ethanol		47.1 U	47.1 U	47.1 U
Ethyl Acetate		18 U	18 U	18 U
Ethylbenzene		**15.8**	**912**	8.69 U
Freon 113		15.3 U	15.3 U	15.3 U
Freon 114		14 U	14 U	14 U
Heptane		**459**	**1890**	**762**
Hexachlorobutadiene		21.3 U	21.3 U	21.3 U

Table 15. Summary of Volatile Organic Compounds in Soil Vapor, 239 10th Avenue, New York, New York

Parameter (Concentrations in ug/m^3)	**Sample Designation:** / **Sample Date:**	SV-1 2/7/2014	SV-2 2/7/2014	SV-3 2/7/2014
Isooctane		**2480**	**9250**	**8780**
Isopropanol		12.3 U	12.3 U	12.3 U
m+p-Xylene		**55.6**	**3860**	**24.7**
Methylene chloride		34.7 U	34.7 U	34.7 U
MTBE		7.21 U	**246**	**555**
n-Hexane		**226**	**4620**	**1180**
o-Xylene		**22.6**	**1020**	**9.86**
Styrene		8.52 U	8.52 U	8.52 U
t-Butyl Alcohol		15.2 U	15.2 U	15.2 U
Tetrachloroethene		**15.6**	13.6 U	13.6 U
Tetrahydrofuran		5.9 U	5.9 U	5.9 U
Toluene		**22.8**	**535**	**22.2**
trans-1,2-Dichloroethene		7.93 U	7.93 U	7.93 U
trans-1,3-Dichloropropene		9.08 U	9.08 U	9.08 U
Trichloroethene		10.7 U	10.7 U	10.7 U
Trichlorofluoromethane		**12.4**	11.2 U	11.2 U
Vinyl chloride		5.11 U	5.11 U	5.11 U

U - Indicates that the compound was analyzed for but not detected

ug/m^3 - Micrograms per cubic meter

Bold data indicates that parameter was detected

APPENDICES A through H

Provided on CD in Bound Report

A. Phase 1 Report

B. Health and Safety Plan

C. Geophysical Work Summary and Maps

D. Soil Boring Geologic Logs

E. Sampling Logs

F. Laboratory Data Deliverables for Soil Analytical Data

G. Laboratory Data Deliverables for Groundwater Analytical Data

H. Laboratory Data Deliverables for Soil Vapor Analytical Data

APPENDIX A

Phase 1 Report

PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)

239-243 10TH AVENUE
AKA 501-503 WEST 24TH STREET
NEW YORK, NEW YORK 10001

PREPARED FOR

VICTOR SEVEN INC.

MECC PROJECT: M9245

MERRITT
Environmental
Consulting Corp.

77 Arkay Drive, Suite D, Hauppauge, NY 11788
(631) 617-6200, Fax. 631-617-6201

ALL APPROPRIATE INQUIRY (AAI)
PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)

ASTM E1527-05

Site Address	239-243 10th Avenue AKA 501-503 West 24th Street New York, New York 10001
Prepared for	Victor Seven Inc. 3349 Highway 138, Building C, Suite C Wall Township, New Jersey 07719 Attn: Mr. Ran Korolik
Prepared By	Merritt Environmental Consulting Corp. 77 Arkay Drive, Suite D Hauppauge, New York 11788 (631) 617-6200 www.merrittec.com
MECC Project No	Project M9245
Inspection Date	March 12, 2013
Summary Date	April 18, 2013
Final Report Date	April 19, 2013

4.1 EXECUTIVE SUMMARY

Merritt Environmental Consulting Corp. (MECC) was retained by Victor Seven Inc. to conduct a Phase I Environmental Site Assessment (ESA) at 239-243 10th Avenue, AKA 501-503 West 24th Street, New York, New York 10001.

The on site investigation was conducted on March 12, 2013.

Based on our site reconnaissance, database review and historical investigation, the following Recognized Environmental Conditions (RECs) were noted at the time of our inspection.

A Recognized Environmental Condition means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under compliance with laws.

The site contains an active Getty gasoline station with two (2) active 10,000-gallon gasoline Underground Storage Tanks (USTs) present. At the time of our on-site inspection, MECC observed several groundwater monitoring wells at the site.

Our regulatory database review identified several New York State Department of Environmental Conservation (NYSDEC) Spill Numbers assigned to the site. The following spill case has not been closed:

Getty Gas #341
239 10th Ave
Spill No. 9707190
Spill Date: 9/17/1997
Close Date: Not Closed

On March 14, 2013, MECC submitted a freedom of information request to the NYSDEC for additional information regarding the on-site spill events.

The documents provided included several letters, reports, and other correspondence between the NYSDEC, Getty Corp., and Tyree Environmental Corp. dated from 2000 through 2012. According to a stipulation agreement effective August 10, 2006, Getty Corporation has agreed to clean up and remove the discharge of petroleum that occurred at the subject site.

The documentation indicates that the Spill No. 9707190 was assigned on September 17, 1997 when petroleum impacted soil was discovered. Three (3) 4,000-gallon gasoline USTs, twelve (12) 550-gallon gasoline USTs, one (1) 275-gallon fuel oil UST, two (2) fueling pump island, and the remote fill were removed in 1998 by Tyree Environmental Corp. A total of 1,852 tons of impacted soil were removed, and nine (9) endpoint soil samples were collected. Analysis of the soil samples revealed elevated concentrations of volatile organic compounds (VOCs). Spill No. 9810383 was assigned and subsequently closed.

Initial groundwater sampling conducted in 2000 revealed elevated concentrations of VOCs above NYSDEC Groundwater Quality Standards. Additional monitoring wells were installed from 2001 onward to delineate the contaminant plume. Numerous Quarterly Monitoring Reports prepared by Tyree Environmental Corp. for monitoring periods between August 2000 and December 2011 were provided. The most recent monitoring report indicates that gasoline-related VOCs exceeded NYSDEC groundwater standards in six (6) of the nine (9) monitoring wells. The compounds detected at elevated levels included include benzene, toluene, ethylbenzene, and xylenes (BTEX) as well as methyl tert-butyl ether (MTBE).

On April 16, 2013, the following information was provided to MECC:

- Quarterly Monitoring Report prepared by Tyree Environmental Corp. for the period April 2012 through June 2012

- Quarterly Monitoring Report prepared by Tyree Environmental Corp. for the period July 2012 through September 2012

On March 5, 2012 Tyree installed two (2) groundwater monitoring wells (MW-11 and MW-12) in order to further delineate downgradient groundwater impacts. Grab samples obtained from these wells following well development indicated VOCs slightly above NYSDEC Groundwater Quality Standards (GQS).

No VOCs were detected above NYSDEC GQS levels in the sample collected from MW-12 on August 1, 2013. MW-11 was not sampled due to sidewalk construction. Elevated concentrations of VOCs remain at well points MW-1, MW-2, MW-3, MW-5, MW-6, and MW-7. The highest levels were found in MW-7: benzene (889 ppb), toluene (71.9 ppb), ethylbenzene (2,190 ppb), total xylenes (4,670 ppb) and MTBE (88.3 ppb).

Tyree anticipated that the groundwater contamination will continue to attenuate naturally and requested that the NYSDEC close Spill No. 9707190.

On April 16, 2013, MECC researched the NYSDEC Spill Incidents Database, which indicates that this spill case remains open at this time.

Conclusions/Recommendations

Based on the information provided, gasoline-related volatile organic compounds (VOCs) are present in the groundwater beneath the subject site at concentrations above NYSDEC Groundwater Quality Standards.

Quarterly groundwater monitoring has been ongoing since at least August 2000. Getty Corporation has entered into a Stipulation Agreement with the NYSDEC to clean up and remove the discharge of petroleum that occurred at the subject site, and has retained Tyree Environmental Corp to conduct the required work.

The most recent information provided consists of a Quarterly Monitoring Report prepared by Tyree Environmental Corp. for the period July 2012 through September 2012. This report indicates that groundwater contamination is minimal in the two (2) offsite wells required by the NYSDEC to further delineate the contamination downgradient of the site. Based on these findings, Tyree requested that the NYSDEC close Spill No. 9707190.

MECC notes that elevated concentrations of gasoline-related VOCs remain in the groundwater beneath the subject site, especially in the vicinity of wells MW-5, MW-6, and MW-7. On April 16, 2013, MECC researched the NYSDEC Spill Incidents Database, which indicates that this spill case remains open at this time.

Based on this information, it is unknown whether the results of this recent study will be found satisfactory by the NYSDEC or if additional work will be required to receive case closure.

NOTE

The subject property is listed as an "E" designated lot. According to a NYCDOB memorandum (12/23/03), "E" designated lots are amendments to the New York City Zoning Maps that may include environmental designations of certain tax lots that have physical or historical evidence of uses related to hazardous materials. Zoning Resolution 11-15 provides that the Department of Buildings may not issue a building permit for work on a tax lot labeled "E", until the Department of Buildings is provided with a report from the Department of Environmental Protection stating that the environmental requirements for the lot have been met.

The "E" designations would require that the fee owner of the site conduct a testing and sampling protocol and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings. Once approval is granted by the NYCDEP, the work can be performed in accordance to required regulations in order to receive a notice of satisfaction.

Under the NYCDEP E-designation program, a comprehensive environmental investigation must be conducted in accordance with receiving a NYCDEP notice to proceed-notice of satisfaction. The scope of work required, may uncover additional sub-surface impacts not previously discovered or tested for (IE: pesticides/herbicides/metals).

An "E" designation only needs to be complied with during the redevelopment of a site. Part of the "E" designation submittal includes architectural drawings on the proposed development. MECC has not been informed of the future usage of the site. Therefore, we cannot comment on the time frame in which the "E" designation would need to be addressed.

The following de minimis conditions were noted but are not considered Recognized Environmental Conditions (RECs).

A de minimis condition is one that generally does not present a material risk of harm to public health or the environment and that generally would not be subject of an enforcement action if brought to the attention of appropriate governmental agencies (excluding local asbestos & lead situations).

	ITEM
1	Two (2) unmarked storage drums were observed on the property. The contents of these drums are unknown. It is recommended that the drums be removed and disposed of properly.

The following Historical Recognized Environmental Conditions (HRECs) were identified in our database search.

A Historical Recognized Environmental Condition (HREC) is an environmental condition which in the past would have been considered a Recognized Environmental Condition (REC), but which may or may not be considered a recognized environmental condition currently. Such as a past release of any hazardous substances or petroleum products which has been remediated, with such remediation accepted by the responsible regulatory agency (for example, as evidenced by the issuance of a no further action letter or equivalent).

The following New York State Department of Environmental Conservation (NYSDEC) spill events occurred at the subject property and have been closed:

Getty Gas Station
239 10 Av
Spill No. 8806159
Spill Date: 10/20/1988
Close Date: 7/29/1994

239 10th Avenue/Getty
239 10th Avenue/
Spill No. 8806160
Spill Date: 10/20/1988
Close Date: 7/29/94

Getty Gas #341
239 10th Ave
Spill No. 0304434
Spill Date: 7/28/2003
Close Date: 8/1/2003

Getty Station #341
239 10th Ave
Spill No. 9810383
Spill Date: 11/7/1998
Close Date: 10/18/2005

Getty Gas Station
239 10 Av
Spill No. 0509792
Spill Date: 11/15/2005
Close Date: 11/16/2005

239 10th Ave/Manh/Getty
239 10th Avenue
Spill No. 9005116
Spill Date: 8/8/1990
Close Date: 7/16/1992

10th Ave & 24th Street
239 10th Ave
Spill No. 9830017
Spill Date: 11/23/1998
Close Date: 11/20/2003

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4.2) INTRODUCTION

4.2.1 PURPOSE

The report was prepared by Merritt Environmental Consulting Corp., whose purpose is to provide comprehensive Phase I Environmental Site Assessments (ESA) in accordance with American Society of Testing Materials (ASTM E 1527-05) standards for a Phase I Environmental Site Assessment. The survey personnel are trained in the field of Environmental Site inspections as Certified Environmental Specialist (CES) by the Environmental Assessment Association as well as asbestos investigators by the Federal Environmental Protection Agency and NY State.

4.2.2 DETAILED SCOPE OF SERVICES

For the Phase I Environmental Site Assessment (ESA), Merritt Environmental Consulting Corp. performed the following primary tasks:

1. *Physical site inspection by Certified Environmental Specialists (CES) who traversed the interior and exterior areas of the site by foot, in addition to conducting a review of adjacent areas and their exteriors.*
2. *Investigations of historical usage of site based upon:*
   a. *Interview of persons knowledgeable about the sites current and past usage.*
   b. *Review of historical sources provided*
3. *Review of USGS geologic and 7.5 Minute Topographical Maps.*
4. *Review of the federal and state environmental databases as per ASTM E1527-05 guidelines, as well as a review of pertinent information provided by local government records.*
5. *Limited survey of site for the presence of electrical transformers that may contain Poly-chlorinated biphenyl (PCBs).*
6. *Limited survey for the presence of friable asbestos containing material (ACM).*
7. *Limited survey of site for the presence of lead based paint surfaces within common areas.*
8. *Inspection of water supply, gas supply, garbage disposal practices, groundwater flow, storm and sanitary discharge methods.*
9. *Review of Radon averages as published by the local and state regulatory agencies.*
10. *Inspection for petroleum storage tanks, above and below grade, stored on site.*
11. *Review of report by a senior certified environmental specialist (CES).*
12. *Unless provided with a Bank Scope of Work (SOW) prior to inspection, no other items have been included.*

4.2.3 SIGNIFICANT ASSUMPTIONS

Information and records provided by the client and outside vendors retained by Merritt Environmental Consulting Corp. are assumed to be correct and complete.

4.2.4 LIMITATIONS AND EXCEPTIONS

The contents of this report are correct to our knowledge and belief. This report and conclusions stated herein are, however, limited to actual knowledge based upon a visual inspection of the Property, the examination of readily available public records concerning the current and prior use of the Property, and interviews with individuals knowledgeable about present and past property uses.

Merritt Environmental Consulting Corp. has performed this Phase I Environmental Site Assessment (ESA) of the Property in accordance with the detailed scope of work in section 4.2.2.

Merritt Environmental Consulting Corp. cannot guarantee that the Property is completely free of hazardous substances or other materials or conditions that could subject the Client to potential liability. The presence or absence of any such condition can only be confirmed through the collection and analysis of soil and groundwater samples, as well as through testing building materials that may contain asbestos or lead paint. This is beyond the scope of the investigation.

Merritt Environmental Consulting Corp. has no interest other than professional in this Assessment and neither its performance, nor compensation for same, is contingent upon the findings and recommendations that are represented herein.

Transfer Property Acts

Many states have enacted property transfer laws that require notification of environmental conditions to a buyer. This ESA is not designed to meet those parameters or determine if a transfer act applies to the subject site

4.2.5 SPECIAL TERMS AND CONDITIONS

There are no special terms or conditions to the content of the report that are in addition to the scope outlined in Section 4.2.2.

4.2.6 RELIANCE

This Phase I Assessment was performed at the client's request utilizing methods and procedures that are consistent with acceptable professional standards ASTM-E1527-05.

The report has been prepared for the sole use of MECC's client. No other party may use the report without the written authority of MECC.

4.3) SITE DESCRIPTION

4.3.1 LOCATION AND LEGAL DESCRIPTION

The property address is 239-243 10th Avenue, AKA 501-503 West 24th Street. The legal site address is Block 696, Lot 32. The site is located in the Chelsea section of Manhattan, New York.

4.3.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The current site is situated on a plot size 5,520 square feet.

The current structure was built in 1950.

The weather conditions during our on-site inspection consisted of rain. The temperature was approximately 52°.

4.3.3 CURRENT USE OF THE PROPERTIES

The site contains an active Getty gasoline station with two (2) active 10,000-gallon gasoline Underground Storage Tanks (USTs) present. At the time of our on-site inspection, MECC observed several groundwater monitoring wells at the site. Our regulatory database review identified several New York State Department of Environmental Conservation (NYSDEC) Spill Numbers assigned to the site. Spill No. 9707190 has not been closed.

4.3.4 DESCRIPTIONS OF STRUCTURES, ROADS AND OTHER IMPROVEMENTS

A. The current site consists of a 1-story commercial gas station with convenience store building, located on a plot size approximately 5,520 square feet (building size is approximately 1,904 square feet). There are no basements or subbasements at the subject site.

B. The site is located on the west side of 10th Avenue between the corners of West 24th Street and West 25th Street.

C. The heating system for this site is located on the roof and is supplied by an individual gas fired roof top HVAC unit.

D. ***STORM AND SANITARY DISCHARGE***

There are no on-site sanitary services such as cesspools or septic tanks located on the property. The sanitary discharge for this building empties into the New York City municipal sewer system located under West 24th Street.

E. *WATER SUPPLY*

The U.S. Environmental Protection Agency estimates that drinking water can comprise 20% or more of a person's total exposure to lead. Although lead in drinking water is rarely the single cause of lead poisoning, it can significantly increase a person's total lead exposure. Infants who are fed baby formula or drinks mixed with hot water from the tap are the most vulnerable to lead in drinking water. Lead solder can leach into the water supply. Standing water in the piping system can aid in the leaching process.

The EPA action level for lead in drinking water is 15 parts per billion, (PPB).

A sample with lead levels that equal or exceed 15 PPB is considered to have elevated levels of lead, and it is recommended that response action be taken. This response action may include additional testing, replacement of plumbing components, or an operations and maintenance program.

FINDINGS

A 1" copper water main enters the property from West 24th Street. The main is connected to a water meter located on the ground floor. The domestic water is supplied by New York City through aqueducts from upstate reservoirs.

There are no private ground water wells servicing this property.

No testing of the water was conducted under this scope.

F. *GARBAGE DISPOSAL*

There are currently no active incinerators located on the property. The garbage to be disposed of is placed in the rear of the building in a portable can with cover. This container is picked up several times per week by private sanitation (Bavaro).

4.3.5 CURRENT USES OF THE ADJOINING PROPERTIES

North	The Highline Park / Parking garage
South	Car wash / Commercial building
East	10th Avenue / Trestler on 10th / US Post Office
West	2-story commercial building

4.4) USER PROVIDED INFORMATION

4.4.1 TITLE RECORDS

No title records were provided.

4.4.2 ENVIRONMENTAL LIENS

Merritt Environmental Consulting Corp. (MECC) has retained Environmental Data Resources (EDR) to conduct an Environmental Lien Search on the site. No environmental liens were indicated (See Appendix A).

4.4.3 SPECIALIZED KNOWLEDGE

No information regarding specialized knowledge was provided.

4.4.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

Merritt Environmental Consulting Corp. (MECC) has used the following New York State websites to research information on the subject property:

- NYC Housing and Preservation
- NYC Department of Finance
- NYC Department of Buildings
- Oasis

4.4.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

No information regarding the valuation reduction for environmental issues was provided by the owner.

4.4.6 OWNER, PROPERTY MANAGER AND OCCUPANT INFORMATION

The current owner of the site is Leemilts Petroleum Inc. which purchased the property in 1977.

The current occupant is a commercial gasoline station.

4.4.7 REASON FOR PERFORMING PHASE I

Merritt Environmental Consulting Corp. (MECC) was retained to perform a Phase I Environmental Site Assessment (ESA) as an agent for the buyer conducting a due diligence evaluation prior to purchasing site.

4.4.8 OTHER/ADDITIONAL INFORMATION PROVIDED

Quarterly Monitoring Reports

4.5) RECORDS REVIEW

4.5.1 STANDARD ENVIRONMENTAL RECORD SOURCES

The federal government and New York State have compiled database lists of contaminated, potentially hazardous and regulated sites that may impact the subject property. Environmental Data Resources (EDR) has provided this information to Merritt Environmental Consulting Corp. (MECC).

4.5.2A DATABASE SEARCHES

The following Federal and State databases were reviewed by Merritt Environmental Consulting Corp. (MECC) on March 13, 2013, with the corresponding distance.

FINDINGS

The closest 15 sites have been included in Appendix A.

Due to the density of the area, several of the site printouts have been omitted from the report.

FEDERAL

Database	**Radius Searched**
1. Federal National Priority List	1 Mile
2. Federal CERCLIS list	½ Mile
3. Federal RCRA TSD facilities list	½ Mile
4. Federal RCRA generators list	Site & Adjacent Properties
5. Federal ERNS list	Site

National Priorities List (NPL) - list compiled by EPA pursuant to CERCLA 42 USC 9605(a)(8)(B) of properties with the highest priority for cleanup pursuant to EPA's Hazard Ranking System.

Findings: 1 site located within a 1-mile radius.

Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) - the list of sites compiled by EPA that EPA has investigated or is currently investigating for potential hazardous substance contamination for possible inclusion on the National Priorities List.

Findings: 1 site located within a ½-mile radius.

Resource Conservation Recovery Act (RCRA) Treatment Storage Disposal (TSD) facilities - those facilities on which treatment, storage, and/or disposal of hazardous wastes takes place, as defined and regulated by RCRA. Inclusion on the RCRA TSD list does not imply contamination has occurred at the site.

Findings: No sites located within a ½-mile radius.

Resource Conservation Recovery Act (RCRA) generators list - list kept by EPA of those persons or entities that generate hazardous wastes as defined and regulated by RCRA. Inclusion on the RCRA list does not imply contamination has occurred at the site.

Findings: No generators listed at property.
22 generators listed within a ¼-mile radius.

Emergency Response Notification System (ERNS) list - list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. Notification requirements for such releases or spills are codified in 40 CFR Parts 302 & 355.

Findings: Site not listed.

STATE AND LOCAL RECORDS

Database	**Radius Searched**
1. State lists of Haz. Waste Sites	1 Mile
2. State landfill/solid waste site lists	½ Mile
3. State leaking tank lists (LTANKS)	½ Mile
4. State registered tanks	¼ Mile
5. E Designation	Site

Department of Environmental Conservation (DEC) lists the contaminated sites throughout the State and classifies the degree of contamination. Number 1 being highly contaminated; number 5 being the least hazardous to the public.

code:

1. Causing or presenting an imminent danger of causing irreversible or irreparable damage to the public health or environment - immediate action required;

2. Significant threat to the public health or environment - action required;

2a. Temporary classification assigned to sites that have inadequate and/or insufficient data for inclusion in any of the other classifications;

3. Does not present a significant threat to the public health or the environment - action may be deferred;

4. Site is properly closed - requires continued management;

5. Site is properly closed, no evidence of present or potential adverse impact - no further action is required.

Findings: No sites located within a 1-mile radius.

Solid Waste Disposal Site - any place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term landfill and is also known as a garbage dump, trash dump or by similar terms.

Findings: 2 sites located within a ½-mile radius.

Spill Logs/LTANKS list – New York State Department of Environmental Conservation (NYSDEC) has a computerized list of spills that have occurred as of 1986, including the present status of the sites. In addition, the leaking tank (LTANKS) database was also reviewed for reported incidents in the area.

Findings: 83 LTANKS located within a ½-mile radius.
48 NY Spills located within a 1/8-mile radius.

The following events occurred at the target property:

Getty Gas Station
239 10 Av
Spill No. 8806159
Spill Date: 10/20/1988
Close Date: 7/29/1994

239 10th Avenue/Getty
239 10th Avenue/
Spill No. 8806160
Spill Date: 10/20/1988
Close Date: 7/29/94

Getty Gas #341
239 10th Ave
Spill No. 0304434
Spill Date: 7/28/2003
Close Date: 8/1/2003

Getty Station #341
239 10th Ave
Spill No. 9810383
Spill Date: 11/7/1998
Close Date: 10/18/2005

Getty Gas Station
239 10 Av
Spill No. 0509792
Spill Date: 11/15/2005
Close Date: 11/16/2005

Getty Gas #341
239 10th Ave
Spill No. 9707190
Spill Date: 9/17/1997
Close Date: Not Closed

10th Ave & 24th Street
239 10th Ave
Spill No. 9830017
Spill Date: 11/23/1998
Close Date: 11/20/2003

239 10th Ave/Manh/Getty
239 10th Avenue
Spill No. 9005116
Spill Date: 8/8/1990
Close Date: 7/16/1992

On March 14, 2013, MECC submitted a freedom of information request to the NYSDEC for additional information regarding the on-site spill events.

The documents provided included several letters, reports, and other correspondence between the NYSDEC, Getty Corp., and Tyree Environmental Corp. dated from 2000 through 2012.

The documentation indicates that the Spill No. 9707190 was assigned on September 17, 1997 when petroleum impacted soil was discovered during the repair of a remote fill. Three (3) 4,000-gallon gasoline USTs, twelve (12) 550-gallon gasoline USTs, one (1) 275-gallon fuel oil UST, two (2) fueling pump island, and the remote fill were removed in 1998 by Tyree Environmental Corp. A total of 1,852 tons of impacted soil was removed, and nine (9) endpoint soil samples were collected. Analysis of the soil samples revealed elevated concentrations of volatile organic compounds (VOCs). Spill No. 9810383 was assigned and subsequently closed.

Initial groundwater sampling conducted in 2000 revealed elevated concentrations of VOCs above NYSDEC groundwater quality standards. Additional monitoring wells were installed from 2001 onward to delineate the contaminant plume. Numerous Quarterly Monitoring Reports prepared by Tyree Environmental Corp. for monitoring periods between August 2000 and December 2011 were provided. The most recent monitoring report indicates that gasoline-related VOCs exceeded NYSDEC groundwater standards in six (6) of the nine (9) monitoring wells. The compounds

detected at elevated levels included include benzene, toluene, ethylbenzene, and xylenes (BTEX) as well as methyl tert-butyl ether (MTBE).

On March 5, 2012 Tyree installed two (2) groundwater monitoring wells (MW-11 and MW-12) in order to further delineate downgradient groundwater impacts. Grab samples obtained from these wells following well development indicated VOCs slightly above NYSDEC Groundwater Quality Standards (GQS).

No VOCs were detected above NYSDEC GQS levels in the sample collected from MW-12 on August 1, 2013. MW-11 was not sampled due to sidewalk construction. Elevated concentrations of VOCs remain at well points MW-1, MW-2, MW-3, MW-5, MW-6, and MW-7. The highest levels were found in MW-7: benzene (889 ppb), toluene (71.9 ppb), ethylbenzene (2,190 ppb), total xylenes (4,670 ppb) and MTBE (88.3 ppb).

Tyree anticipated that the groundwater contamination will continue to attenuate naturally and requested that the NYSDEC close Spill No. 9707190.

On April 16, 2013, MECC researched the NYSDEC Spill Incidents Database, which indicates that this spill case remains open at this time.

State registered tanks - state lists of storage tanks required to be registered under Subtitle I. Section 9002 of RCRA.

Findings: 5 registered tanks located on site.
90 registered tank sites located within a 1/4-mile radius.

Getty Service Station #341
239 Tenth Avenue
Facility ID: 2/151270
Expiration Date: June 29, 2014

Tank 001
10,000 gallon UST
Status: In Service
Product: Unleaded gasoline
Date Installed:12/1/1998

Tank 001A
4,000 gallon UST
Status: Closed-removed
Product: Unleaded gasoline
Date Closed: 11/1/1998

Tank 002
10,000 gallon UST
Status: In Service
Product: Unleaded gasoline
Date Installed:12/1/1998

Tank 002A
4,000 gallon UST
Status: Closed-removed
Product: Unleaded gasoline
Date Closed: 11/1/1998

Tank 003
4,000 gallon UST
Status: Closed-removed
Product: Unleaded gasoline
Date Closed: 11/1/1998

E Designation- According to a NYCDOB memorandum (12/23/03), "E" designated lots are amendments to the New York City Zoning Maps that may include environmental designations of certain tax lots that have physical or historical evidence of uses related to hazardous materials. Zoning Resolution 11-15 provides that the Department of Buildings may not issue a building permit for work on a tax lot labeled "E", until the Department of Buildings is provided with a report from the Department of Environmental Protection stating that the environmental requirements for the lot have been met.

Findings: **The subject property is listed as an "E" designated lot.**

Lot 32, Tax Block 696
239 10 Avenue
E-No. E-142
Effective Date: 6/23/2005
Satisfaction date: Not Reported
Description: Underground Gasoline Storage Tanks Testing Protocol, Window Wall Attenuation & Alternate Ventilation

The "E" designations would require that the fee owner of the site conduct a testing and sampling protocol and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings. Once approval is granted by the NYCDEP, the work can be performed in accordance to required regulations in order to receive a notice of satisfaction.

As previously outlined, an "E" designation only needs to be complied with during the redevelopment of a site. Part of the "E" designation submittal includes architectural drawings on the proposed development.

Under the NYCDEP E-designation program, a comprehensive environmental investigation must be conducted in accordance with receiving a NYCDEP notice to proceed-notice of satisfaction. The scope of work required, may uncover additional sub-surface impacts not previously discovered or tested for (IE: pesticides/herbicides/metals).

4.5.2 ADDITIONAL RECORDS SEARCHED

Database	Radius Searched
1. Indian Reservation	1 Mile
2. Indian LUST	½ Mile
3. Indian UST	¼ Mile
4. Hist Auto Station	Site

EDR Historical Auto Stations- EDR has searched selected national collections of business directories and has collected listings of potential gas station /filling station /service station sites that were available to EDR researchers. EDR's review was limited to those categories that might, in EDR's opinion, include gas station /filling station /service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filing station, auto, automobile repair, auto service station, etc.

Findings: **Site is listed.**

Name: **Power Test Gas Station**
Year: **1999-2002**
Address: **239 10th Ave**

Name: **S & J Petroleum**
Year: **2003**
Address: **239 10th Ave**

Name: **SRJ Petroleum**
Year: **2004**
Address: **239 10th Ave**

Name: **A & R Petroleum**
Year: **2010**
Address: **239 10th Ave**

4.5.2B ORPHAN SITES

Our database review indicated several sites that cannot be positively plotted (orphan sites). A total of 20 sites were classified as orphans.

The subject site does not appear on the orphan list.

4.5.3 PHYSICAL SETTING SOURCES

A. BODIES OF WATER

The nearest body of water to the subject site is the Hudson River, which is approximately 1/4 mile west of the site.

B. GROUND WATER FLOW

Through information provided by EDR, hydrological data involving ground water flow has been obtained. Based on our findings, the hydrological groundwater flows in a westerly direction eventually emptying into the Hudson River.

Groundwater in this area is at a depth of approximately 12 feet.

Drinking water for the five boroughs has been supplied by the New York reservoir system for many years (See Map in Appendix A). Groundwater is not a primary source of drinking water for Manhattan.

C. ECOLOGICAL SENSITIVE AREA

Based on information provided by Environmental Data Resources (EDR), no designated wetlands are located in the immediate vicinity of the property.

SITE GEOLOGY AND TOPOGRAPHY

Information pertaining to the hydrogeologic setting in the vicinity of the subject property was obtained from a review of selected published documents and maps. United States Geological Survey (USGS) 7.5-minute Topographic Maps were used to characterize surface topography, water table elevation and drainage. Subsurface characteristics were obtained from USGS Surficial and Bedrock Geology Maps from the lower Hudson Sheet.

4.5.4 HISTORICAL USE INFORMATION ON THE PROPERTY

A. Sanborn Fire Insurance maps of the site and immediate area were available for the years 1890, 1899, 1911, 1928, 1930, 1950, 1976, 1979, 1980, 1982, 1985, 1987, 1988, 1991, 1992, 1993, 1994, 1995, 1996, 2001, 2002, 2003, 2004, and 2005. The maps indicate the following information:

1890 through 1928 Sanborn Maps

The subject property and adjoining properties consist of commercial and manufacturing facilities.

1930 through 2005 Sanborn Maps

The subject property is developed with a filling station. The adjoining properties consist of an auto repair shop to the north, a car wash to the south across W. 24th Street, commercial and residential buildings to the east across 10th Avenue, and a former rail line (present-day Highline Park) followed by auto repair shops to the west.

B. Aerial Photographs of the site and immediate area were available for the years 1924, 1943, 1954, 1966, 1975, 1984, 1995, 1997, 2006, 2008, 2009, 2010 and 2011. The photos indicate the following information:

This section of Manhattan has been developed with residential and commercial buildings from1924through the latest aerial photo available (2011).

C. City Directories

City Directories were ordered for the site (See Appendix A). The search indicated the following:

1920-1927	P Frink Inc
1938-2006	Service Station

Due to the size of the City Directories provided, the adjacent property listings have been omitted. They are on file in our office.

D. Topographic Maps

A topographic map (topo) is a color coded line-and-symbol representation of natural and selected artificial features plotted to a scale. Topos show the shape, elevation, and development of the terrain in precise detail by using contour lines and color coded symbols. The colors of the lines usually indicate similar classes of information. For example, topographic contours (brown); lakes, streams, irrigation ditches, etc. (blue); land grids and important roads (red); secondary roads and trails, railroads, boundaries, etc. (black).

Historical topographic maps are a valuable historical resource for documenting the prior use of a property and its surrounding area.

Topographic Maps of the site and immediate area were available for the years 1891, 1900, 1905, 1925, 1947, 1955, 1967, and 1981.

4.5.4A DATA GAPS

No significant data gaps were noted within the historical research conducted by Merritt Environmental Consulting Corp (MECC).

4.5.5 HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES

The above historical sources were reviewed by Merritt Environmental Consulting Corp. (MECC) for the adjoining properties on the north, south, east & west.

The adjoining properties consist of an auto repair shop to the north, a car wash to the south across W. 24th Street, commercial and residential buildings to the east across 10th Avenue, and a former rail line (present-day Highline Park) followed by auto repair shops to the west.

4.6) SITE RECONNAISSANCE

4.6.1 METHODOLOGY AND LIMITING CONDITIONS

At the time of our inspection, the following areas were accessed by Mr. Gary Pollack, of our staff: ground floor, utilities areas, mechanical areas, retail space, parking lots, and all accessible exterior areas of the site.

4.6.2 GENERAL SITE SETTING

West side of 10th Avenue; Topography is flat

4.6.3 EXTERIOR OBSERVATIONS

Two unmarked storage drums were observed on the property. The content of these drums is unknown. It is recommended that the drums be removed and disposed of properly.

Several monitoring test wells were observed on the property on the front sidewalk, driveway, and parking lot.

4.6.4 INTERIOR OBSERVATIONS

The interior inspection revealed no evidence of any on-site staining of petroleum products, chemicals, or other hazardous materials.

4.6.5 UNDERGROUND STORAGE TANKS (UST) AND DRUMS

Each year, thousands of petroleum leaks and spills are reported to the Department of Environmental Conservation (DEC). Thousands of others may go unreported mainly because they have not yet been discovered. These leaks can enter the ground, seep into an aquifer and contaminate a water supply. In some places, water wells have been closed down and people have had to vacate their homes. Even small amounts of petroleum in soil or groundwater can be tasted or smelled and can subsequently affect health.

Leaking petroleum storage tanks are a major source of groundwater contamination. The DEC estimates that there may be as many as 185,000 tanks storing petroleum, which are subject to state regulations. Many of these tanks are bare steel and were installed in the 1950s and 1960s. These tanks have weakened by rust and have a fifty percent chance of developing leaks.

FINDINGS

There are two (2) 10,000-gallon underground gasoline storage tanks (USTs) buried under the ground slab driveway on the property holding gasoline.

TANK REGISTRATION:

The tanks are currently registered with New York State Department of Environmental Conservation (NYSDEC), (permit #2-151270), which expires on June 29, 2014.

4.6.6 ABOVEGROUND STORAGE TANKS (AST)

No aboveground tanks or storage drums were observed in any of the accessible areas at the time of our inspection.

4.6.7 ELECTRICAL TRANSFORMERS (PCBs)

Transformers often contain poly-chlorinated biphenyl (PCB) Askarel coolant liquid and are generally used in hazardous locations where flammability is of concern. PCB transformers are no longer produced because of EPA's ban on the manufacture of new equipment containing PCBs. However, older equipment does remain in certain areas and may contain PCBs.

As of January, 1979, Polychlorinated Biphenyls (PCB) and other toxic materials used in fluorescent ballasts were phased out. Any building constructed prior to 1979 may contain PCB in minor quantities and is not considered a major health threat.

Further evaluation goes beyond the scope of a Phase I Environmental Report. Should you need any additional information, a technical engineer may be contacted for assistance.

FINDINGS

No electrical transformers were observed on the property.

As per the Toxic Substance Control Act (TSCA), the transformer owner, i.e. the utility company, is responsible for all transformer maintenance and all spills of PCBs from their transformers.

Fluorescent light fixtures were not inspected for PCB content under the scope of this assessment.

4.6.8 NATURAL GAS

There is one underground gas main entering the building from 10th Avenue. The main is connected to a meter located on the exterior of the building. The gas is then distributed to the heating system only.

Gas service is provided by Con Edison.

4.6.9 VAPOR ENCROACHMENT /VAPOR INTRUSION CONDITION

A Vapor Encroachment Condition (VEC) is defined by ASTM E2600-10 as "the presence or likely presence of contaminant of concern (COC) vapors in the subsurface of the Target Property (TP) caused by the release of vapors from the contaminated soil or groundwater or both either on or near the TP".

Vapor Intrusion (VI) occurs when contaminant of concern (COC) vapors enter a structure from the subsurface and impact the indoor air quality (IAQ) of a building. At high enough concentrations, vapor intrusion may present a health risk to the building's occupants.

MECC conducted a review of historical resources and regulatory database listings to identify any potential sources of contamination at the subject site that may result in Vapor Encroachment or Vapor Intrusion. In addition, MECC has reviewed available information for surrounding properties within the appropriate search distances to identify potential sources of a VEC/VIC at the subject site.

This is not intended to meet the criteria of a Vapor Encroachment Screen (VES) as outlined by ASTM E2600-10 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transaction. This is beyond the scope of a Phase I ESA.

FINDINGS:

The site contains an active Getty gasoline station with two (2) active 10,000-gallon gasoline Underground Storage Tanks (USTs) present. At the time of our on-site inspection, MECC observed several groundwater monitoring wells at the site.

Our regulatory database review identified several New York State Department of Environmental Conservation (NYSDEC) Spill Numbers assigned to the site. The following spill case has not been closed:

Getty Gas #341
239 10th Ave
Spill No. 9707190
Spill Date: 9/17/1997
Close Date: Not Closed

On March 14, 2013, MECC submitted a freedom of information request to the NYSDEC for additional information regarding the on-site spill events.

The documents provided included several letters, reports, and other correspondence between the NYSDEC, Getty Corp., and Tyree Environmental Corp. dated from 2000 through 2012. According to a stipulation agreement effective August 10, 2006, Getty Corporation has agreed to clean up and remove the discharge of petroleum that occurred at the subject site.

The documentation indicates that the Spill No. 9707190 was assigned on September 17, 1997 when petroleum impacted soil was discovered. Three (3) 4,000-gallon gasoline USTs, twelve (12) 550-gallon gasoline USTs, one (1) 275-gallon fuel oil UST, two (2) fueling pump island, and the remote fill were removed in 1998 by Tyree Environmental Corp. A total of 1,852 tons of impacted soil were removed, and nine (9) endpoint soil samples were collected. Analysis of the soil samples revealed elevated concentrations of volatile organic compounds (VOCs). Spill No. 9810383 was assigned and subsequently closed.

Initial groundwater sampling conducted in 2000 revealed elevated concentrations of VOCs above NYSDEC Groundwater Quality Standards. Additional monitoring wells were installed from 2001 onward to delineate the contaminant plume. Numerous Quarterly Monitoring Reports prepared by Tyree Environmental Corp. for monitoring periods between August 2000 and December 2011 were provided. The most recent monitoring report indicates that gasoline-related VOCs exceeded NYSDEC groundwater standards in six (6) of the nine (9) monitoring wells. The compounds detected at elevated levels included include benzene, toluene, ethylbenzene, and xylenes (BTEX) as well as methyl tert-butyl ether (MTBE).

On April 16, 2013, the following information was provided to MECC:

- Quarterly Monitoring Report prepared by Tyree Environmental Corp. for the period April 2012 through June 2012

- Quarterly Monitoring Report prepared by Tyree Environmental Corp. for the period July 2012 through September 2012

On March 5, 2012 Tyree installed two (2) groundwater monitoring wells (MW-11 and MW-12) in order to further delineate downgradient groundwater impacts. Grab samples obtained from these wells following well development indicated VOCs slightly above NYSDEC Groundwater Quality Standards (GQS).

No VOCs were detected above NYSDEC GQS levels in the sample collected from MW-12 on August 1, 2013. MW-11 was not sampled due to sidewalk construction. Elevated concentrations of VOCs remain at well points MW-1, MW-2, MW-3, MW-5, MW-6, and MW-7. The highest levels were found in MW-7: benzene (889 ppb), toluene (71.9 ppb), ethylbenzene (2,190 ppb), total xylenes (4,670 ppb) and MTBE (88.3 ppb).

Tyree anticipated that the groundwater contamination will continue to attenuate naturally and requested that the NYSDEC close Spill No. 9707190.

On April 16, 2013, MECC researched the NYSDEC Spill Incidents Database, which indicates that this spill case remains open at this time.

4.6.10 NON-SCOPE ASTM CONSIDERATIONS

There may be environmental issues or conditions at a property that parties may wish to assess in connection with commercial real estate that are outside the scope of this practice (the non-scope considerations).Some substances may be present on a property in quantities and under conditions that may lead to contamination of the property or of nearby properties but are not included in CERCLA's definition of hazardous substances (42 U.S.C. §9601(14) or do not otherwise present potential CERCLA liability. In any case, they are beyond the scope of this practice. There may be standards or protocols for assessment of potential hazards and conditions associated with non-scope conditions developed by governmental entities, professional organizations, or other private entities. Asbestos-Containing Building Materials, Lead-Based Paint, and Radon are several non-scope considerations that persons may want to assess in connection with commercial real estate.

A. ASBESTOS

The EPA has identified over 3,000 products used in buildings containing asbestos fibers. Our inspection of the premises is to determine the presence of **friable asbestos**, as defined by the Federal Environmental Protection Agency as any material, which may be pulverized with hand pressure. This material has the potential to release asbestos fibers into the atmosphere and in turn may be hazardous to the building occupants' health.

We have not inspected for or included in our report any building materials, which may contain non-friable asbestos such as vinyl asbestos floor tiles, exterior asbestos shingles, asbestos roofing felts, etc. Many of these materials are still manufactured today and not considered hazardous unless the material is cut, sawed, or grounded in a manner that might release asbestos fibers into the atmosphere.

We have used the 4-category system as defined by Asbestos Hazardous Emergency Response Act (AHERA) to designate the different conditions of asbestos noted throughout the areas of the site. This report is not designed to meet the AHERA protocols.

1. *Good Condition*
   Material with no visible damage or deterioration to very limited damage or deterioration.

2. *Fair Condition*
   Material with one or more of the following characteristics:
   - *A few water stains or less than one tenth of insulation with missing jackets.*
   - *Crushed insulation or water stains, gouges, puncture or mars on up to one tenth of the insulation if the damage is evenly distributed (or up to one quarter if the damage is localized).*

3. *Poor Condition*
   Material with one or more of the following characteristics:
   - *Missing jackets on at least one tenth of the piping equipment.*
   - *Crushed or heavily gouged or punctured insulation on at least one tenth of pipe runs/risers, boiler, tank duct, etc., if the damage is evenly distributed (one quarter if the damage is localized).*

4. *Significantly Damaged*

Thermal systems insulation on pipes, boilers, tanks, ducts, and other thermal system insulation equipment which the insulation has lost its structural integrity, or its covering, in whole or in part, is crushed, water-stained, gouged, punctured, missing, or not intact such that is not able to contain fibers. Damage may be further illustrated by occasional puncture, gouges, or other signs of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris, originating from the ACM in question may also indicate damage.

ASBESTOS FINDINGS

No friable asbestos containing material was observed in any of the accessible areas of the building.

Many buildings' fireproofing is concealed in a plenum above the ceiling. These areas were not accessible and, therefore, we are unable to determine the type of fireproofing for those areas above the first floor.

Amounts of ACM identified by MECC should be verified by a licensed abatement company. Amounts are not provided as an estimating tool of material to be addressed.

Asbestos samples taken do not satisfy the requirements of an asbestos survey promulgated by city, state or federal regulations. They were taken to identify the presence of asbestos in certain locations (i.e. pipe insulation, boiler jackets, fire proofing, etc.).

B. LEAD BASED PAINT

Lead-based paint (LBP) was used extensively in buildings and structures that were constructed prior to 1978 and can be hazardous when damaged (i.e., chipped, broken, crumbling, pulverized); lead is toxic to humans particularly to children, if ingested, inhaled, or otherwise absorbed. Exposure to lead can cause health problems in children ranging from damage to the brain and nervous system, behavioral and learning problems (such as hyperactivity), slowed growth, hearing problems and headaches. In adults the health problems can range from difficulties during pregnancy, other reproductive problems, high blood pressure, digestive problems, nerve disorders, memory and concentration problems and muscle and joint pain.

Our research indicates the building was constructed **prior to 1978**, and lead based paint is assumed to be present throughout the building.

FINDINGS

The painted surface in the common areas inspected by Merritt Environmental Consulting Corp's staff did not demonstrate signs of peeling or cracking. No samples of the paint were analyzed since this is beyond the scope of this Assessment.

Research of the Housing Preservation and Development (HPD) Department records did not

reveal any lead based paint violations against the subject site (See Appendix A).

New York City Local Law 101A was enacted on August 1, 2004 and focuses on dwelling units and common areas in buildings built before 1960. Owner occupied cooperatives and condominiums are exempt – but common areas in these buildings are covered under the law. An owner has the obligation to investigate in any apartment in a pre-1960 building occupied by a child seven years of age or under and in common areas for all of the conditions that might create a lead paint hazard. These investigations are required at least once a year.

The owner is required to correct a lead based paint hazard which is defined as "any condition in a dwelling or dwelling unit that causes exposure to lead from lead-contaminated dust, or from lead based paint that is peeling, or from lead based paint that is present on chewable surfaces, deteriorated sub-surfaces, friction surfaces, or impact surfaces that would result in adverse human health effects".

This Phase I Environmental Site Assessment (ESA) is not designed to make a determination of a building owners compliance with local law 101A.

In addition, the site is not used for residential purposes.

A lead based paint survey in accordance with The Housing & Urban Development (HUD) guidelines was not conducted under the scope of this assessment.

C. MOLD

Our on-site inspection did not reveal any visible evidence of mold or mold spores in any of the accessible areas inspected.

D. RADON

Radon first gained national attention in early 1984, when extremely high levels of indoor radon were found in areas of Connecticut, Pennsylvania, New Jersey, and New York. Radon is a colorless, odorless radioactive gas. Nearly one out of every 15 homes in the U.S. is estimated to have elevated annual average levels of indoor radon. EPA established a Radon Program in 1985 to assist States and homeowners in reducing their risk of lung cancer from indoor radon.

FINDINGS

The New York State Department of Health indicates the average radon level for this area of Manhattan to be 1.4 picocuries per liter (pCi/L), which is below the EPA action level of 4 pCi/L.

A radon canister was not initiated at the time of our inspection since this is beyond the scope of this assessment.

4.7) INTERVIEWS

4.7.1 INTERVIEW WITH OWNER

The owner was not present during our inspection.

4.7.2 INTERVIEW WITH SITE REPRESENTATIVE

During our on-site visit, we interviewed Verny Valverde, who is the purchaser's representative.

Copies of the above records of communications are included in Appendices, Section 10.6.

4.7.3 INTERVIEWS WITH OCCUPANTS (TENANTS)

No other individuals were interviewed regarding the facility.

4.7.4 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

We are researching the New York City Health & Fire Department records for any information of hazardous operations including, past spills, leaks or violations. The information provided indicates that no records were found responsive to our request.

According to a NYCDOB memorandum (12/23/03), "E" designated lots are amendments to the New York City Zoning Maps that may include environmental designations of certain tax lots that have physical or historical evidence of uses related to hazardous materials. Zoning Resolution 11-15 provides that the Department of Buildings may not issue a building permit for work on a tax lot labeled "E", until the Department of Buildings is provided with a report from the Department of Environmental Protection stating that the environmental requirements for the lot have been met.

On March 13, 2013 MECC researched the NYC Building Department and found that there are "E" designations associated with the property. The process to remove an "E" designation and receive a notice of satisfaction includes the following:

- **Submitting a work plan to the New York City Department of Environmental Protection**
- **Conducting a sub-surface investigation**
- **Submit results to the New York City Department of Environmental Protection**

The process can take several months and cost over $20,000 to satisfy the requirement for removing an "E" designation. However, the "E" designation is only addressed during the redevelopment of a site. MECC has not been informed of the future usage of the site. Therefore, we cannot comment on the time frame in which the "E" designation would need to be addressed.

4.7.5 INTERVIEWS WITH OTHERS

No additional interviews were conducted as part of this assessment.

A questionnaire was forwarded to Ran Korolik on March 13, 2013. We have not yet received a completed questionnaire (See Appendix A).

4.8) REPORT FINDINGS

Based on our site reconnaissance, database review and historical investigation, the following Recognized Environmental Conditions (RECs) were noted at the time of our inspection.

A Recognized Environmental Condition means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under compliance with laws.

The site contains an active Getty gasoline station with two (2) active 10,000-gallon gasoline Underground Storage Tanks (USTs) present. At the time of our on-site inspection, MECC observed several groundwater monitoring wells at the site.

Our regulatory database review identified several New York State Department of Environmental Conservation (NYSDEC) Spill Numbers assigned to the site. The following spill case has not been closed:

Getty Gas #341
239 10th Ave
Spill No. 9707190
Spill Date: 9/17/1997
Close Date: Not Closed

On March 14, 2013, MECC submitted a freedom of information request to the NYSDEC for additional information regarding the on-site spill events.

The documents provided included several letters, reports, and other correspondence between the NYSDEC, Getty Corp., and Tyree Environmental Corp. dated from 2000 through 2012. According to a stipulation agreement effective August 10, 2006, Getty Corporation has agreed to clean up and remove the discharge of petroleum that occurred at the subject site.

The documentation indicates that the Spill No. 9707190 was assigned on September 17, 1997 when petroleum impacted soil was discovered. Three (3) 4,000-gallon gasoline USTs, twelve (12) 550-gallon gasoline USTs, one (1) 275-gallon fuel oil UST, two (2) fueling pump island, and the remote fill were removed in 1998 by Tyree Environmental Corp. A total of 1,852 tons of impacted soil were removed, and nine (9) endpoint soil samples were collected. Analysis of the soil samples revealed elevated concentrations of volatile organic compounds (VOCs). Spill No. 9810383 was assigned and subsequently closed.

Initial groundwater sampling conducted in 2000 revealed elevated concentrations of VOCs above NYSDEC Groundwater Quality Standards. Additional monitoring wells were installed from 2001 onward to delineate the contaminant plume. Numerous Quarterly Monitoring Reports prepared by Tyree Environmental Corp. for monitoring periods between August 2000 and December 2011 were provided. The most recent monitoring report indicates that gasoline-related VOCs exceeded NYSDEC groundwater standards in six (6) of the nine (9) monitoring wells. The compounds detected at elevated levels included include benzene, toluene, ethylbenzene, and xylenes (BTEX) as well as methyl tert-butyl ether (MTBE).

On April 16, 2013, the following information was provided to MECC:

- Quarterly Monitoring Report prepared by Tyree Environmental Corp. for the period April 2012 through June 2012

- Quarterly Monitoring Report prepared by Tyree Environmental Corp. for the period July 2012 through September 2012

On March 5, 2012 Tyree installed two (2) groundwater monitoring wells (MW-11 and MW-12) in order to further delineate downgradient groundwater impacts. Grab samples obtained from these wells following well development indicated VOCs slightly above NYSDEC Groundwater Quality Standards (GQS).

No VOCs were detected above NYSDEC GQS levels in the sample collected from MW-12 on August 1, 2013. MW-11 was not sampled due to sidewalk construction. Elevated concentrations of VOCs remain at well points MW-1, MW-2, MW-3, MW-5, MW-6, and MW-7. The highest levels were found in MW-7: benzene (889 ppb), toluene (71.9 ppb), ethylbenzene (2,190 ppb), total xylenes (4,670 ppb) and MTBE (88.3 ppb).

Tyree anticipated that the groundwater contamination will continue to attenuate naturally and requested that the NYSDEC close Spill No. 9707190.

On April 16, 2013, MECC researched the NYSDEC Spill Incidents Database, which indicates that this spill case remains open at this time.

Conclusions/Recommendations

Based on the information provided, gasoline-related volatile organic compounds (VOCs) are present in the groundwater beneath the subject site at concentrations above NYSDEC Groundwater Quality Standards.

Quarterly groundwater monitoring has been ongoing since at least August 2000. Getty Corporation has entered into a Stipulation Agreement with the NYSDEC to clean up and remove the discharge of petroleum that occurred at the subject site, and has retained Tyree Environmental Corp to conduct the required work.

The most recent information provided consists of a Quarterly Monitoring Report prepared by Tyree Environmental Corp. for the period July 2012 through September 2012. This report indicates that groundwater contamination is minimal in the two (2) offsite wells required by the NYSDEC to further delineate the contamination downgradient of the site. Based on these findings, Tyree requested that the NYSDEC close Spill No. 9707190.

MECC notes that elevated concentrations of gasoline-related VOCs remain in the groundwater beneath the subject site, especially in the vicinity of wells MW-5, MW-6, and MW-7. On April 16, 2013, MECC researched the NYSDEC Spill Incidents Database, which indicates that this spill case remains open at this time.

Based on this information, it is unknown whether the results of this recent study will be found satisfactory by the NYSDEC or if additional work will be required to receive case closure.

NOTE

The subject property is listed as an "E" designated lot. According to a NYCDOB memorandum (12/23/03), "E" designated lots are amendments to the New York City Zoning Maps that may include environmental designations of certain tax lots that have physical or historical evidence of uses related to hazardous materials. Zoning Resolution 11-15 provides that the Department of Buildings may not issue a building permit for work on a tax lot labeled "E", until the Department of Buildings is provided with a report from the Department of Environmental Protection stating that the environmental requirements for the lot have been met.

The "E" designations would require that the fee owner of the site conduct a testing and sampling protocol and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings. Once approval is granted by the NYCDEP, the work can be performed in accordance to required regulations in order to receive a notice of satisfaction.

Under the NYCDEP E-designation program, a comprehensive environmental investigation must be conducted in accordance with receiving a NYCDEP notice to proceed-notice of satisfaction. The scope of work required, may uncover additional sub-surface impacts not previously discovered or tested for (IE: pesticides/herbicides/metals).

An "E" designation only needs to be complied with during the redevelopment of a site. Part of the "E" designation submittal includes architectural drawings on the proposed development. MECC has not been informed of the future usage of the site. Therefore, we cannot comment on the time frame in which the "E" designation would need to be addressed.

The following de minimis conditions were noted but are not considered Recognized Environmental Conditions (RECs).

A de minimis condition is one that generally does not present a material risk of harm to public health or the environment and that generally would not be subject of an enforcement action if brought to the attention of appropriate governmental agencies (excluding local asbestos & lead situations).

	ITEM
1	Two (2) unmarked storage drums were observed on the property. The contents of these drums are unknown. It is recommended that the drums be removed and disposed of properly.

The following Historical Recognized Environmental Conditions (HRECs) were identified in our database search.

A Historical Recognized Environmental Condition (HREC) is an environmental condition which in the past would have been considered a Recognized Environmental Condition (REC), but which may or may not be considered a recognized environmental condition currently. Such as a past release of any hazardous substances or petroleum products which has been remediated, with such remediation accepted by the responsible regulatory agency (for example, as evidenced by the issuance of a no further action letter or equivalent).

The following New York State Department of Environmental Conservation (NYSDEC) spill events occurred at the subject property and have been closed:

Getty Gas Station
239 10 Av
Spill No. 8806159
Spill Date: 10/20/1988
Close Date: 7/29/1994

239 10th Avenue/Getty
239 10th Avenue/
Spill No. 8806160
Spill Date: 10/20/1988
Close Date: 7/29/94

Getty Gas #341
239 10th Ave
Spill No. 0304434
Spill Date: 7/28/2003
Close Date: 8/1/2003

Getty Station #341
239 10th Ave
Spill No. 9810383
Spill Date: 11/7/1998
Close Date: 10/18/2005

Getty Gas Station
239 10 Av
Spill No. 0509792
Spill Date: 11/15/2005
Close Date: 11/16/2005

239 10th Ave/Manh/Getty
239 10th Avenue
Spill No. 9005116
Spill Date: 8/8/1990
Close Date: 7/16/1992

10th Ave & 24th Street
239 10th Ave
Spill No. 9830017
Spill Date: 11/23/1998
Close Date: 11/20/2003

4.9 OPINIONS

Based on our site reconnaissance, database review, historical review and interviews with persons familiar with the subject site and adjacent properties, the above Recognized Environmental Conditions (RECs) and de minimis conditions were identified under the scope of services outlined in Section 4.2.2.

Since the Historical Recognized Environmental Conditions (HRECs) have been addressed, they do not appear to impact the site.

4.10 CONCLUSION

Merritt Environmental Consulting Corp has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Practice E1527 of 239-243 10th Avenue, AKA 501-503 West 24th Street, New York, New York 10001, the property. Any exceptions to, or deletions from, this practice are described in Section [4.2.2] of this report.

4.11 DEVIATIONS

The assessment was performed in accordance with the ASTM 1527-05 Standards as well as the detailed scope of services outlined in section 4.2.2 of this report.

4.12 ADDITIONAL SERVICES

No additional services were performed beyond the detailed scope of services in section 4.2.2.

4.13 REFERENCES

All references relied upon are located in Appendix A.

4.14 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

We thank you for allowing Merritt Environmental Consulting Corp., to serve as your Environmental Consultant for this project. We declare that, to the best our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312, and

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the "All Appropriate Inquiries" in conformance with the standards and practices set forth in 40 CFR Part 312.

Should you have any questions regarding the contents of this report, please feel free to contact us to discuss the report in further detail.

Site Inspector:

Gary Pollack
Certified Environmental Specialist

Reviewed by:

Charles G. Merritt
Certified Environmental Specialist /LEED AP

4.15 QUALIFICATIONS

See Appendix A

APPENDICES

- Site Photography
- Site Vicinity Map
- Regulatory Records Documentation
- Historical Research Documentation
- Interview Documentation
- Qualifications
- Special Contractual Conditions between User & Environmental Professional (If Applicable)
- Historical Recognized Environmental Conditions (HREC) documentation provided (If Applicable)
- Additional Information obtained

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SITE PHOTOGRAPHY

MERRITT
Environmental
Consulting Corp.

77 Arkay Drive, Suite D,
Hauppauge, NY 11788
(631) 617-6200, Fax. 631-617-6201
WWW.MERRITTEC.COM

SITE ADDRESS:239-243 10TH AVE

PROJECT M9245

VIEW OF ELEVATION ON W 24TH ST

VIEW OF FRONT ELEVATION

VIEW OF TYPICAL MONITORING WELL
NOTEW ON SITE

VIEW OF TANK FIELD NOTED IN LOT

VIEW OF 1 OF 2 PUMP ISLANDS

VIEW OF GAS MAIN AND METER NOTED ON
EXTERIOR OF BUILDING

MERRITT
Environmental
Consulting Corp.

77 Arkay Drive, Suite D,
Hauppauge, NY 11788
(631) 617-6200, Fax. 631-617-6201
WWW.MERRITTEC.COM

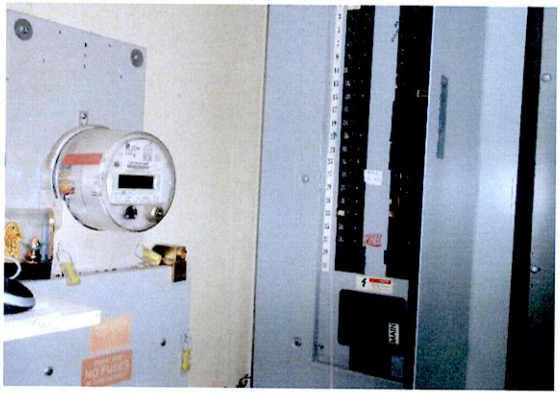
SITE ADDRESS:239-243 10TH AVE

PROJECT M9245

VIEW OF GARBAGE CONTAINER NOTED ON SITE

VIEW OF UNMARKED 55GAL. DRUMS NOTED ON SITE

VIEW OF TYPICAL FLOOR DRAIN NOTED ON SITE



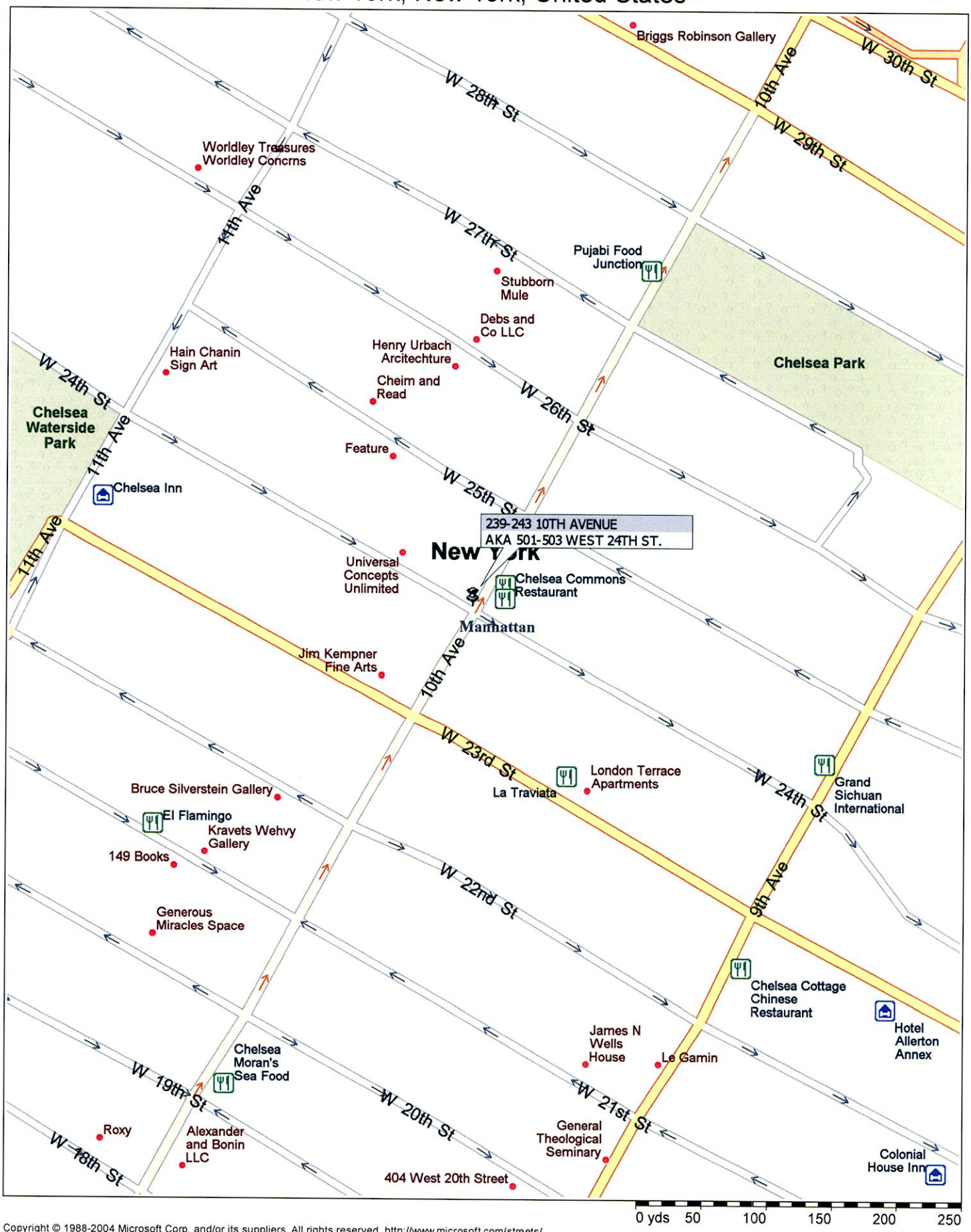
VIEW OF ELECTRIC MAIN AND METER NOTED ON GROUND FLOOR

VIEW OF WATER MAIN AND METER NOTED ON GROUND FLOOR

VIEW OF REATAIL STORE NOTED REAR OF-SITE OFF W 24TH ST

SITE VICINITY MAP

New York, New York, United States



REGULATORY RECORDS DOCUMENTATION

NYC Buildings

NYC.gov always open

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Property Profile Overview

239 10 AVENUE — **MANHATTAN 10001** — **BIN# 1012369**

10 AVENUE	239 - 243	Health Area	: 5500	Tax Block	: 696
WEST 24 STREET	501 - 503	Census Tract	: 99	Tax Lot	: 32
		Community Board	: 104	Condo	: NO
		Buildings on Lot	: 1	Vacant	: NO

View DCP Addresses... Browse Block

View Zoning Documents | View Challenge Results | View Certificates of Occupancy

Cross Street(s):	WEST 24 STREET, WEST 25 STREET		
DOB Special Place Name:			
DOB Building Remarks:			
Landmark Status:		**Special Status:**	N/A
Local Law:	NO	**Loft Law:**	NO
SRO Restricted:	NO	**TA Restricted:**	NO
UB Restricted:	NO		
Little 'E' Restricted:	HAZMAT/NOISE	**Grandfathered Sign:**	NO
Legal Adult Use:	NO	**City Owned:**	NO
Additional BINs for Building:	NONE		

Special District: WCH - WEST CHELSEA

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. Click here for more information

Department of Finance Building Classification: G5-GARAGE/GAS STAT'N

Please Note: The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open
Complaints	3	0
Violations-DOB	6	0
Violations-ECB (DOB)	2	0
Jobs/Filings	42	
ARA / LAA Jobs	0	
Total Jobs	42	
Actions	76	

OR Enter Action Type:
OR Select from List:
Select...
AND Show Actions

Elevator Records
Electrical Applications
Permits In-Process / Issued
Illuminated Signs Annual Permits
Plumbing Inspections
Open Plumbing Jobs / Work Types
Facades
Marquee Annual Permits
Boiler Records
DEP Boiler Information
Crane Information
After Hours Variance Permits

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

The selected address: 239 10 AVENUE, Manhattan 10001

HPD#	Range	Block	Lot	CD	CensusTract	Stories	A Units	B Units	Ownership	Registration#	Class
4980 Active	239-243	00696	0032	4	9900	1	0	0	PVT	0	COMMERCIAL

Other Units

Property Owner Registration Information

Charges

Map

Complaint Status

Complaint History

Carbon Monoxide Certificate

Litigation/Case Status

All Open Violations

prior year Open Viol.'s

Ecertification

I-Card Images

Property Registration Assistance

One and two family properties are not required to register with HPD unless neither the property owner nor family members of the owner live on the premises. Owners of these properties can register after obtaining a Registration Number. For more information on how to obtain a Registration Number and register, please return to the HPD home page and search for Property Registration.

No violations were retrieved.

FINAL ASSESSMENT ROLL 2012-2013 | City of New York

Taxable Status Date: **January 5, 2012**

EXPLANATION OF ASSESSMENT ROLL

View 2013 TENTATIVE ASSESSMENT ROLL
View January 15, 2013 - Market Value History
View May 25, 2012 - Market Value History
View 2012 TENTATIVE ASSESSMENT ROLL
View May 25, 2011 - Market Value History
View 2011 FINAL ASSESSMENT ROLL
View January 15, 2011 - Market Value History
View 2011 TENTATIVE ASSESSMENT ROLL
View May 25, 2010 - Market Value History
View 2010 FINAL ASSESSMENT ROLL
View 2010 TENTATIVE ASSESSMENT ROLL
View 2009 FINAL ASSESSMENT ROLL
View 2008 FINAL ASSESSMENT ROLL
View 2007 FINAL ASSESSMENT ROLL
View 2006 FINAL ASSESSMENT ROLL

Parcel Information

◂◂ Previous BBL Next BBL ▸▸

Owner Name:
LEEMILTS PETROLEUM INC

Property Address and Zip Code:
239 10 AVENUE 10001

Real Estate Billing Name and Address:
LEEMILTS PETROLEUM INC
GETTY REALTY CORP
125 JERICHO TPKE STE 103
JERICHO NY 11753

Borough: MANHATTAN
Block: 696
Lot: 32

Tax Class: 4
Building Class: G5 Codes

Land Information

Lot Size	Irregular	Corner
78.92FT X 70.00FT		NW

Building Information

Number of Buildings	Building Size	Extension	Stories
1	34.00FT X 56.00FT		1

Assessment Information

Description	Land	Total
ESTIMATED MARKET VALUE		1,506,000
ACTUAL AV	450,000	677,700
ACTUAL EX AV	0	0
TRANS AV	408,960	615,868
TRANS EX AV	0	0

Taxable/Billable Assessed Value

m9245

FIRE DEPARTMENT – CITY OF NEW YORK

Public Records Unit / Tanks Section

9 MetroTech Center
Brooklyn, New York 11201-3857
(718) 999-2441 or 2442

Fuel Tank Special Report Request Form

SECTION A **CUSTOMER INFORMATION**

Please print the required information below.

Kelli Cullen
Name

77 Arkay Drive, Suite D
Address

Hauppauge NY 11788
State Zip Code

631-617-6200
Telephone Number

OFFICE USE ONLY

Cashier / Search No.

PRU Staff
Accepted By/Initials:

Searched By:

Total Amount:

Note: Please make sure you complete this form and attach all required documents. Enclose a check or money order made payable to the NYC Fire Department and a stamped self-addressed envelope (with postage). Mail checks or money orders directly to the address and unit listed above. DO NOT MAIL CASH.

SECTION B **FUEL TANK REPORT - FEE $10.00 / PER REPORT**

239 10th ave
House Number Street Name

manhattan
Borough

- [ ] THE TOTAL AMOUNT AND SIZE OF EXISTING FUEL OIL / HEATING TANKS
- [x] THE TOTAL AMOUNT AND SIZE OF REMOVED OR SEALED FUEL OIL / HEATING TANKS
- [ ] THE TOTAL AMOUNT AND SIZE OF EXISTING BURIED MOTOR VEHICLE TANKS
- [ ] THE TOTAL AMOUNT AND SIZE OF REMOVED OR SEALED BURIED MOTOR VEHICLE TANKS
- [ ] MOST RECENT TANK / PIPING TEST RESULTS
- [ ] HISTORY OF BURIED TANKS LEAKS

Note: Requests will be responded to within 10 business days.

PR3 (July-08)

FIRE DEPARTMENT – CITY OF NEW YORK

Public Records Unit / Fire Records Section

9 MetroTech Center
Brooklyn, New York 11201-3857
(718) 999-2681 or 2682

Violation Special Report Request Form

SECTION A **CUSTOMER INFORMATION**

Please print the required information below.

OFFICE USE ONLY

Cashier / Search No.

PRU Staff
Accepted By/Initials:

Searched By:

Total Amount:

3/13/13
Date

Kelli Cullen
Name

77 Arkay Drive
Address

Hauppauge, NY 11788
Borough, State Zip Code

631-617-6200
Telephone Number

Note: Please make sure you complete this form and attach all required documents. Enclose a check or money order made payable to the NYC Fire Department and a stamped self-addressed envelope (with postage). Mail checks or money orders directly to the address and unit listed above. DO NOT MAIL CASH.

SECTION B **REQUEST VIOLATION REPORT** **FEE $10.00 / PER REPORT**

Please print the required information below.

239 10th avenue
House No Street Name

manhattan
Borough

☑ EXISTING- ALL NOTICES OF VIOLATION AND VIOLATION ORDERS ISSUED BY THE FIRE PREVENTION

☐ EXISTING- ALL SUMMONSES

Note: This search is limited to outstanding Summonses, Notices of Violation and Violation Orders (VOs) that are reported to be related to a specific address. With respect to VOs this search is limited to VOs issued on January 1, 2008 or thereafter. This search does not contain information on VOs issued by fire companies, unless they were forwarded to the Bureau of Fire Prevention. A requested report will only list the violation numbers. After you have received the Report, you can obtain a copy of any record available for an additional fee of $0.25 (cents) / per page by filling out the copy of violation request form.

Note: Requests will be responded to within 10 business days.

PR4 (April-09)

mq245

FIRE DEPARTMENT

9 METROTECH CENTER BROOKLYN, N.Y. 11201-3857

PUBLIC RECORDS UNIT
TANKS SECTION

Ref No: T- 33615

KELLI CULLEN
MERRITT ENVIRONMENTAL CONSULTING
77 ARKAY DR. STE D
HAUPPAUGE, NY 11788

Dear Customer / Representative,

We have completed a search for address and the requsted information listed below. In the "Status" box below, we have listed the results and any additional comments we may have regarding the search.

*Search Type Customer Requested	$10 - Fuel - Removed / Sealed		
*Search Address	239 10 AVE		
*Borough	01 - Manhattan		
*Payment Type	02-Check	*Payment No.	5255
*Data Entered	3/25/2013	*Entered By	CC
Account Number		Requested Folder	

No. of Tanks	No. of Gallons	Tank Type	Fuel Type	Conversion

***Additional Information**

***Status** Completed - Record not found

IMPORTANT NOTICE: THIS REPORT IS NOT VALID IF ALTERED, CORRECTED OR WITHOUT FDNY CERTIFICATION STAMP AND UNIT EMPLOYEE'S SIGNATURE.

Place FDNY Certification Stamp Below

THIS IS TO CERTIFY THAT THIS IS A TRUE COPY OF THE ORIGINAL DOCUMENT ON FILE WITH FDNYEMS
SIGNATURE DR

If you need further assistance or additional information, please call (718) 999-2441; 8 am - 4pm (Monday - Friday).

Thank you,

Public Records Representative

E- 3/25/2013 CC
C- 4/2/2013 DR

ma245

FIRE DEPARTMENT

9 METROTECH CENTER BROOKLYN, N.Y. 11201-3857

PUBLIC RECORDS UNIT
VIOLATIONS SECTION

Ref No: V- 121213

KELLI CULLEN
MERRITT ENVIRONMENTAL CONSULTING
77 ARKAY DR. STE D
HAUPPAUGE, NY 11788
631-617-6200

Dear Customer / Representative,

We have completed a search for address and the requsted information listed below. In the "Status" box below, we have listed the results and any additional comments we may have regarding the search.

***Title Search No**	*None	***Customer / Order No**	*None
***Search Address**	239 10 AVE	***Borough**	01 - Manhattan
***Search Type**	$10 - Existing Violations		
***Payment**	02-Check	***Payment No.**	5255

Listed Record(s)

NOTICE OF VIOLATION: 10185373R, 19836000H, 10882651L, 10080921H

***Status** Search Completed - Record Found (see above)

IMPORTANT NOTICE: THIS REPORT IS NOT VALID IF ALTERED, CORRECTED OR WITHOUT FDNY CERTIFICATION STAMP AND UNIT EMPLOYEE'S SIGNATURE.

Place FDNY Certification Stamp Below

I CERTIFY THAT THIS IS A TRUE COPY OF ORIGINAL FIRE DEPT RECORD, KEPT IN THE DAILY COURSE OF BUSINESS

RECORD MANAGER
BUREAU FIRE PREVENTION

If you need further assistance or additional information, please call (718) 999-2441; 8 am - 4pm (Monday - Friday).

Thank you,

Public Records Representative

E-3 /28/2013 CC

FDNY Building Information Profile

03/28/13 09:35:27

Bin: 1012369

Total AKA Found: 2

BLOCK	LOT	BIN	LHND	HHND	STREET NAME	BOROUGH
00696	0032	1012369	239	243	10 AVENUE	MANHATTAN
00696	0032	1012369	501	503	WEST 24 STREET	MANHATTAN

Summary

Num Siam Sprinkler	:	Sprinkler Type	:
Num Siam Standpipe	:	Sprinkler Type	:
Last BISP Insp Date	:	Last BISP Insp Status	:
Num of Violation Notices	: 4	Num of Violation Order	: 0
Has BISP Asbestos Abatement	: No		

Accounts

FPREV Permit Accounts

Acct #	Owner Name	Do #	PFX	Last Insp Date	Last Insp Stat
01669506	LUK OIL	01	E	08/28/2012	PASS
27099035	LUK OIL	32	E	02/07/2012	PASS
99055238	LUK OIL	01	P	08/28/2012	PASS

NOV

FPREV Violation Notices

Owner Name	NOV Num	Issue Date	Vio LawNum	Vio LawDesc	Vio Disposition	Disp Date
GETTY PETROLEUM CORP.	10185373R	02/15/1994	RULE 5	FAILED TO PRODUCE PERMIT AND/OR RECORD	DEFAULT	04/11/1994
IM GETTY INC	19836000H	12/13/1988	RULE 17	FAILED TO OBTAIN CERTIFICATE OF FITNESS	DEFAULT	02/06/1989
LUK OIL	10882651L	10/17/2006	RULE 20	FAILED TO CONDUCT REQUIR TEST/INSPECTIO	FOUND GUILTY AT A HEARING	11/21/2007
POWER TEST 10AVE SRV STA	10080921H	03/26/1990	RULE 17	FAILED TO OBTAIN CERTIFICATE OF FITNESS	DEFAULT	05/21/1990

Vio Orders

No Violation Orders Found.

MERRITT
Environmental
Consulting Corp.

77 Arkay Drive, Suite D, Hauppauge, NY 11788
(631) 617-6200, Fax. 631-617-6201

March 13, 2013
Project No. M9245

Robert LoCicero
Records Access Office
New York State Department of Health
Corning Tower Room 2364
Albany, New York 12237-0044

Re: Freedom of Information Request

Dear Mr. LoCicero:

Merritt Environmental Consulting Corp. (MECC) would like to review any files retained by the NYS Department of Health concerning the following property:

- **239-243 10th Avenue aka 501-503 West 24th Street**
  New York, New York 10001
- **Block: 696, Lot: 32**

The information we are interested in is underground storage tanks, site contamination, or violations that have been issued to the site. If you have any questions, please feel free to contact me.

Very truly yours,

Charles G. Merritt
Certified Environmental Specialist /LEED, AP

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

March 15, 2013

Charles G. Merritt
Merritt Environmental Consulting Corp.
77 Arkay Drive, Suite D
Hauppauge, NY 11788

Re: FOIL #: 13-03-256
Your Project No. M9245

Dear Mr. Merritt:

This will acknowledge receipt of your 3/13/2013 request for records under the Freedom of Information Law.

Your request has been forwarded to the appropriate Department program area(s) to identify documents that are responsive to your request and which may be made available pursuant to all applicable provisions of the Freedom of Information Law.

It is estimated that within 20 business days we will complete your request or we will notify you in writing if the responsible program area(s) should require additional time to locate, assemble and review responsive documents.

Please note that, pursuant to Article 6 of the Public Officers Law, a charge *may* be applied to your request, including the actual cost of the medium used to respond to your Freedom of Information Law request and/or other related costs. When responsive records have been identified, you will be informed of any cost and how payment should be made.

Sincerely,

James P. O'Hare
Records Access Office

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

March 22, 2013

Charles G. Merritt
Merritt Environmental Consulting Corp.
77 Arkay Drive, Suite D
Hauppauge, NY 11788

Re: FOIL #: 13-03-256
Your File #: M9245

Dear Mr. Merritt:

This letter responds to your Freedom of Information Law request of March 13, 2013, in which you requested environmental records for 239-243 10th Avenue AKA 501-503 West 24th Street New York, New York 10001. Please be advised that no records responsive to your request have been located.

Should you feel that you have been unlawfully denied access to records, you may appeal such denial in writing within 30 days to the Records Access Appeals Officer, Division of Legal Affairs, Empire State Plaza, 2438 Corning Tower, Albany, New York, 12237-0026.

Should you require additional information or wish to discuss this matter further, please do not hesitate to contact me at (518) 474-8734.

Sincerely,

James P. O'Hare
Records Access Office

JPO/aa

MERRITT
Environmental
Consulting Corp.

77 Arkay Drive, Suite D, Hauppauge, NY 11788
(631) 617-6200, Fax. 631-617-6201

March 14, 2013
Project # M9245

NYSDEC
Region 2 Headquarters
1 Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101

Re: Gas Station
239 10th Avenue, New York, New York
Spill # 8806159, 0509792, 8806160
9707190, 9830017, 9810383, 9005116

To Whom It May Concern:

Merritt Environmental Consulting Corp. (MECC) performed a Phase I Environmental Site Assessment (ESA) at 239 10th Avenue, New York, NY 10001. There are seven Spill designations at this site. We would like any information you may have regarding these Spill events (#8806159, 0509792, 8806160, 9707190, 9830017, 9810383, 9005116).

Should you have any questions or if I can be of further assistance, please feel free to contact me.

Very truly yours,

Charles G. Merritt
President /LEED, AP

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 0509792

SPILL NAME: GETTY#341 **DEC LEAD:** SFRAHMAN

SPILL DATE: 11/15/2005 **SPILL TIME:** 3:30 pm

CALL RECEIVED DATE: 11/15/2005 **RECEIVED TIME:** 4:51 pm

SPILL LOCATION

PLACE: GETTY#341 **COUNTY:** New York

STREET: 239 10TH AVE. **TOWN/CITY:** New York City

COMMUNITY: NEW YORK

CONTACT: MIKE CARR **CONTACT PHONE:** (518) 786-3200 223

CONT. FACTOR: Human Error **SPILL REPORTED BY:** Other

FACILITY TYPE: Passenger Vehicle **WATERBODY:**

CALLER REMARKS:

1/2 gallon of material released due to customer overfill . Used speedy dry for clean up. Clean up is complete.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Gasoline	Petroleum		0 G	Soil,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
UNKNOWN CUSTOMER	ZZ	UNKNOWN NAME

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

11.16.05 Sharif-Left a messege for Mike Carr, (518)786-3200x223 to follow up the spill .Tyree returned my call to say that spill was cleaned up by the getty operator. No sewer/soil was affected.It was on the concrete.

PIN **T & A** **COST CENTER**

CLASS: D4 **CLOSE DATE:** 11/16/2005 **MEETS STANDARDS:** False

Created On: 11/15/2005

Date Printed: 3/19/2013 Last Updated: 11/16/2005

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 8806159

SPILL NAME: GETTY GAS STATION **DEC LEAD:** SULLIVAN

SPILL DATE: 10/20/1988 **SPILL TIME:** 3:00 pm

CALL RECEIVED DATE: 10/21/1988 **RECEIVED TIME:** 8:41 am

SPILL LOCATION

PLACE: GETTY GAS STATION **COUNTY:** New York

STREET: 239 10TH AVE **TOWN/CITY:** New York City

COMMUNITY: NEW YORK

CONTACT: **CONTACT PHONE:**

CONT. FACTOR: Tank Test Failure **SPILL REPORTED BY:** Tank Tester

FACILITY TYPE: Gasoline Station **WATERBODY:**

CALLER REMARKS:
2 4K TKS BOTH L R'S UNREADABLE. GETTY WILL EXCAV & INVES.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Gasoline	Petroleum	-1 L	0 L	GW,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
SAME	ZZ	TOM DIXON(CONTACT) (718) 729-6500

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure
	0	Gasoline			00	0.00	

DEC REMARKS:

PIN **T & A** **COST CENTER**

CLASS: A3 **CLOSE DATE:** 07/29/1994 **MEETS STANDARDS:** True

Created On: 11/02/1988

Date Printed: 3/19/2013 Last Updated: 03/14/2005

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 8806160

SPILL NAME: 239 10TH AVENUE/GETTY **DEC LEAD:** SULLIVAN

SPILL DATE: 10/20/1988 **SPILL TIME:** 3:00 pm

CALL RECEIVED DATE: 10/21/1988 **RECEIVED TIME:** 8:41 am

SPILL LOCATION

PLACE: 239 10TH AVENUE/GETTY **COUNTY:** New York

STREET: 239 10TH AVENUE **TOWN/CITY:** New York City

COMMUNITY: NEW YORK CITY

CONTACT: **CONTACT PHONE:**

CONT. FACTOR: Tank Test Failure **SPILL REPORTED BY:** Tank Tester

FACILITY TYPE: Gasoline Station **WATERBODY:**

CALLER REMARKS:
(2) 4K TANKS FAILED.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Gasoline	Petroleum	-1	0	GW,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
	Update ZZ	

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure
	0	Gasoline			00	0.00	

DEC REMARKS:

PIN **T & A** **COST CENTER**

CLASS: A3 **CLOSE DATE:** 07/29/1994 **MEETS STANDARDS:** True

Created On: 12/05/1988

Date Printed: 3/19/2013 Last Updated: 08/01/1994

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 9005116

SPILL NAME: 239 10TH AVE/MANH/GETTY **DEC LEAD:** SULLIVAN

SPILL DATE: 08/08/1990 **SPILL TIME:** 11:00 am

CALL RECEIVED DATE: 08/08/1990 **RECEIVED TIME:** 3:17 pm

SPILL LOCATION

PLACE: 239 10TH AVE/MANH/GETTY **COUNTY:** New York

STREET: 239 10TH AVENUE **TOWN/CITY:** New York City

COMMUNITY: NEW YORK CITY

CONTACT: **CONTACT PHONE:**

CONT. FACTOR: Tank Test Failure **SPILL REPORTED BY:** Tank Tester

FACILITY TYPE: Gasoline Station **WATERBODY:**

CALLER REMARKS:
4K TANK FAILED AN AIR PRESSURE TEST.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Gasoline	Petroleum	-1	0	Soil,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
GETTY	ZZ	(718) 729-6500

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure
	0	Gasoline			00	0.00	

DEC REMARKS:

PIN **T & A** **COST CENTER**

CLASS: C4 **CLOSE DATE:** 07/16/1992 **MEETS STANDARDS:** True

Created On: 08/14/1990

Date Printed: 3/19/2013 Last Updated: 07/28/1992

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 9707190

SPILL NAME: GETTY S/S #341 - GETTY PROPERTIES **DEC LEAD:** KGHALE

SPILL DATE: 09/17/1997 **SPILL TIME:** 3:00 pm

CALL RECEIVED DATE: 09/17/1997 **RECEIVED TIME:** 4:00 pm

SPILL LOCATION

PLACE: GETTY S/S #341 - GETTY PROPERTIES **COUNTY:** New York

STREET: 239 10TH AVE
239 TENTH AVE

TOWN/CITY: New York City
COMMUNITY: MANHATTAN

CONTACT: LOUIS OCHOTORENA **CONTACT PHONE:** (718) 729-6500

CONT. FACTOR: Equipment Failure **SPILL REPORTED BY:** Other

FACILITY TYPE: Gasoline Station **WATERBODY:**

CALLER REMARKS:
A LEAK IN THE REMOTE FILL. SOIL WAS REMOVED AND LEAK WAS REPAIRED.

ORIGINAL SPILL ASSIGNED TO O'DOWD.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Gasoline	Petroleum	0 G	0 G	Soil,
Gasoline	Petroleum	0 G	0 G	GW,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
GETTY PROPERTIES	125 JERICHO TURNPIKE JERICHO NY 11753	KEVIN SHEA

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

3/14/03: REASSIGNED FROM ROMMEL TO VOUGHT.

11/20/2003-Vought-See closed spill #'s 9830017 and 0211201 at same location.

11/24/2004: Sent letter to Getty requesting an investigatory work plan and environmental site history. (Harrington)

1/13/2005: Approved SI work plan (installation of four (4) monitoring wells). Harrington

3/24/2005: Project transferred to Vought - Region 2. (Harrington)

08/31/2005 - Feng - Project transferred from Vought to Feng.

10/18/2005 - Feng - Spill#: 98-10383 has been consolidated into this spill#.

10/25/2005 - Feng - Subsurface Investigation Report, dated 5/2/2005. on 4/12-13/2005, Tyree installed 3 off-site monitoring wells in sidewalk adjacent to 10th Ave and 1 in sidewalk adjacent to West 24th St as per the Work Plan approved by Harrington

on 1/23/2005. Highly contaminated soil found in B-5(4'-8'), B-6(6'-8'), and B-7(6'-8'). however, goundwater was just slight high contaminated in B-6.

10/25/2005 - Feng - Quarterly Monitoring Report, 5/2005 - 7/2005. 7 monitoring wells onsite. groundwater flows to south at depth of 7.04' to 8.54' below grade. W-1, decreasing, 146ppb BTEX and 37ppb MTBE. W-2, decreasing, 274ppb BTEX and 104ppb MTBE. W-3, decreasing and fluctuating, 1,649ppb BTEX and 461ppb MTBE. W-4, 1,753ppb BTEX and no MTBE. W-5, 9,975ppb BTEX and <46.0ppb MTBE. W-6, 4,718ppb BTEX and 58ppb MTBE. W-7, 18,230ppb BTEX and 16,700ppb MTBE.

11/2/2005 - Feng - Quarterly Monitoring Report, 8/2005 - 10/2005. 7 monitoring wells onsite. groundwater flows to south at depth of 7.21' to 8.71' below grade. W-1, decreasing, 12ppb BTEX and 13ppb MTBE. W-2, decreasing, 7ppb BTEX and 45ppb MTBE. W-3, decreasing and fluctuating, 2,518ppb BTEX and 262ppb MTBE. W-4, decreasing, 1,418ppb BTEX and no MTBE. W-5,increasing, 11,608ppb BTEX and 74ppb MTBE. W-6, 4,336ppb BTEX and MTBE MDL. W-7, sharply decreased, 2,461ppb BTEX and 211ppb MTBE.

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4/6/2006 - Feng - Stip cancelled due to dropping in concentration. Wait for next quarter monitoring report. (RJF)

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Stipulation Agreement sent to Getty Properties and cc to Tyree and Delta. STIP due 7/24/2006.(RJF)

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Emailed Rob Szczepanski (Tyree) to approve the delineation of contamination, RAP due 11/17/2006 as per the Stipulation Agreement. (RJF)

10/26/2006 - Feng - The adjacent property will be developed, 245 10th Ave and 502 West 24th Street, E-142-Designation Site of NYCDEP. Called Amy Ma of NYCDEP to inform her about the existing spill in the Getty Station locate 239 10th Ave. (RJF)

11/15/2006 - Feng - Quarterly Monitoring Report, 8/2006 - 10/2006, 10/19/2006, by Tyree. Active Lukoil gasoline station/convenience store. Groundwater sampled and gauged 10/16/2006. 9 monitoring wells. DTW 8.31' to 9.83' bg. Flow direction south. No LNAPL. BTEX range ND to 30,410 ppb (MW-7). MTBE range ND to 3,330 ppb (MW-7). (RJF)

1/18/2007 - Feng - Getty Properties portfolio meeting with Tyree and Delta. DEC staff has informed Tyree and Delta about the site development at the adjacent property, and the dewatering process may affect the contamination plume. Tyree will contact DEP before the preparation of RAP. (RJF)

1/23/2007 - Feng - Email Rob S. (Tyree) the contact person info in DEP and the adjecent project info. (RJF)

6/6/2007 - Feng - Quarterly Monitoring Report, 11/2006 - 1/2007, 2/2007. Groundwater monitored 1/30/2007. 9 monitoring wells. Active gasoline station. DTW 7.94' to 9.47' bg. Flows southerly. LNAPL in W-7 (0.26'). W-1, 185 ppb BTEX, 163 ppb MTBE. W-2, 9 ppb BTEX, 24 ppb MTBE. W-3, 18,410 ppb BTEX, 102 ppb MTBE. W-4, not accessible. W-5, 10,606 ppb BTEX, 33 ppb MTBE. W-6m 1,953 ppb BTEX, 36 ppb MTBE. W-7, 0.26' of LNAPL. W-8, ND. W-9, destroyed. W-10, 3 ppb BTEX, MTBE ND. (RJF)

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11/8/2007 - Feng - Portfolio meeting with Delta and Tyree. Tyree will sample for one more qua
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1/28/2008 - Feng - Quarterly Monitoring Report, 8/2007 - 10/2007, 11/2007. Active Lukoil gasoline station/convenience store. Groundwater gauged and sampled 10/23/2007. 9 monitoring wells. DTW 10.05' to 16.37' bg. Flows to south. No LNAPL. BTEX range ND to 5,131 ppb (W-6). MTBE range ND to 252 ppb (W-3). (RJF)

3/19/2008 - Feng - eDoc Quarterly Monitoring Report 1Q2008. (RJF)

3/20/2008 - Feng - Email to Tyree and Delta for RAP status. (RJF)

3/24/2008 - Feng - Quarterly Monitoring Report, 11/2007 - 1/2008, 2/2008. Active Lukoil gasoline station/convenience store. Groundwater was gauged and sampled 1/14/2008. 9 monitoring wells. No DTW available due to water probe broke onsite. Flows to south. No LNAPL. BTEX range ND to 4,203 ppb (W-1). MTBE range ND to 412 ppb (W-2). (RJF)

7/11/2008 - 2Q2008, 2/2008 - 4/2008, 5/2008. Active Lukoil gasoline station/convenience store. Groundwater was gauged and sampled 4/25/2008. 9 monitoring wells. DTW 9.65' to 11.58' bg. Flows to south. No LNAPL. BTEX range ND to 10,765 ppb (W-3). MTBE range ND to 191 ppb (W-3).

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 9707190

SPILL NAME: GETTY S/S #341 - GETTY PROPERTIES **DEC LEAD:** KGHALE

email Tyree for RAP status. (RJF)

9/4/2008 - Getty Properties portfolio meeting with Delta and Tyree. The dewatering that started 4/2007 was stoped 2/2008. MW-4 was not sampled because storage box was on top of that. Wait to see the rebound before the delineation. Possible monitoring wells will be installed between the service building and the tank. (RJF)

1/6/2009 - Getty Properties portfolio meeting with Delta and Tyree. Review 2Q2009 quarterly for possbile delineation. (RJF)

3/18/2009 - Quarterly Monitoring Report, 5/2008 - 7/2008, 8/2008, by Tyree. Active Lukoil gasoline station convenience store. Groundwater was gauged and sampled 7/22/2008. 9 monitoring wells. NO LNAPL. DTW 9.21' to 10.67' bg. Flows to south. BTEX range ND to 7,530 ppb (W-3). MTBE range ND to 165 ppb (W-3). (RJF)

5/6/2009 - Quarterly Monitoring Report, 8/2008 - 10/2008, 11/2008, by Tyree. Active Lukoil gasoline station convenience store. Groundwater was gauged and sampled 10/30/2008. 10 monitoring wells. NO LNAPL. DTW 8.11' to 9.66' bg. flows to south. BTEX range ND to 20,856 ppb (W-7). MTBE range ND to 192 ppb (W-7). (RJF)

11/6/2009 - 2Q2009, 4/2009-6/2009, 9/2009, pdf, by Tyree. Active Lukoil gasoline station convenience store. 12 monitoring wells. Groundwater was gauged 4/24/2009, 5/29/2009, 6/19/2009 and 7/9/2009. NO LNAPL. DTW 8.11' to 9.66' bg. Flows to south. Groundwater was sampled 6/19/2009. BTEX range ND to 11,198 ppb (W-7). MTBE range ND to 274 ppb (W-2). (RJF)

7/9/2010 - Reviewed Investigation Work Plan, dated 6/3/2010, by Tyree. Tyree proposes 2 wells W-11 and W-12 in west of W-7 and north of W-7. Work Plan is approved. Report due 10/2010.

2/8/2012 - Reviewed the Subsurface Investigation Work Plan, dated 5/17/2011, by Tyree. Tyree proposes to install 2 monitoring wells at the sidewalk along West 24th Street. Tyree mentioned that refusals were hit during the previous attempt to install wells as per the 7/2010 approved work plan.

2/10/2012 - Letter sent to Getty approving the work plan. Report due 4/2012. DEC provides comments, 1) sample groundwater and soil for CP-51 list VOCs; 2) conduct site history review to identify the reason why W-5, W-6 and W-7 with elevated BTEX concentration. Notified Getty that the case has been transferred to Central Office. All the future correspondences shall be directed to the new project manager, Kevin Hale. (J. Feng)

PIN **T & A** **COST CENTER**

CLASS: B4 **CLOSE DATE:** **MEETS STANDARDS:** False

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 9810383

SPILL NAME: GETTY STATION #341 **DEC LEAD:** rjfeng

SPILL DATE: 11/07/1998 **SPILL TIME:** 12:00 pm

CALL RECEIVED DATE: 11/17/1998 **RECEIVED TIME:** 1:20 pm

SPILL LOCATION

PLACE: GETTY STATION #341 **COUNTY:** New York

STREET: 239 10TH AVE
239 TENTH AVE

TOWN/CITY: New York City
COMMUNITY: MANHATTAN

CONTACT: **CONTACT PHONE:** (212) 727-8793

CONT. FACTOR: Unknown **SPILL REPORTED BY:** Other

FACILITY TYPE: Gasoline Station **WATERBODY:**

CALLER REMARKS:

CALLER TOOK BORINGS AND JUST RECEIVED RESULTS WHICH INDICATE CONTAMINATION - TANK UPGRADE TO BE DONE ON SITE

ORIGINAL SPILL ASSIGNED TO O'DOWD.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Gasoline	Petroleum	0 G	0 G	Soil,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
GETTY STATION #341	239 10TH AVE MANHATTAN NY	(212) 727-8793

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"
3/14/03 VOUGHT

08/31/2005 - Feng - transferred from Vought to Feng.

10/18/2005 - Feng - spill consolidated with spill #: 97-07190 in same location.

PIN **T & A** **COST CENTER**

CLASS: B3 **CLOSE DATE:** 10/18/2005 **MEETS STANDARDS:** False

Created On: 11/17/1998

Date Printed: 3/19/2013 Last Updated: 10/18/2005

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 9830017

SPILL NAME: GETTY **DEC LEAD:** JBVOUGHT

SPILL DATE: 11/23/1998 **SPILL TIME:** 3:00 pm

CALL RECEIVED DATE: 11/24/1998 **RECEIVED TIME:** 10:00 am

SPILL LOCATION

PLACE: GETTY **COUNTY:** New York

STREET: 239 10TH AVE **TOWN/CITY:** New York City

239 TENTH AVE **COMMUNITY:** MANHATTAN

CONTACT: **CONTACT PHONE:**

CONT. FACTOR: Housekeeping **SPILL REPORTED BY:** DEC

FACILITY TYPE: Gasoline Station **WATERBODY:**

CALLER REMARKS:

TANK REMOVING AT THIS SITE. NEIGHBOR CAN NOT TOLERATE THE STRONG GAS SMELL FROM THE STATION.

ORIGINAL SPILL ASSIGNED TO O'DOWD.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Gasoline	Petroleum	0 G	0 G	Air,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
GETTY	239 10TH AVE NEW YORK NY 10011-	

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"
10/30/03. SEE ALSO SPILL # 0211201. YK.

11/20/2003-Vought-See open spill 9707190 and closed spill 0211201 at same location. This spill closed by Vought.

PIN **T & A** **COST CENTER**

CLASS: B3 **CLOSE DATE:** 11/20/2003 **MEETS STANDARDS:** False

Created On: 11/24/1998

Date Printed: 3/19/2013 Last Updated: 11/20/2003

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 9707190

SPILL NAME: GETTY S/S #341 - GETTY PROPERTIES **DEC LEAD:** KGHALE

SPILL DATE: 09/17/1997 **SPILL TIME:** 3:00 pm

CALL RECEIVED DATE: 09/17/1997 **RECEIVED TIME:** 4:00 pm

SPILL LOCATION

PLACE: GETTY S/S #341 - GETTY PROPERTIES **COUNTY:** New York

STREET: 239 10TH AVE
239 TENTH AVE

TOWN/CITY: New York City
COMMUNITY: MANHATTAN

CONTACT: LOUIS OCHOTORENA **CONTACT PHONE:** (718) 729-6500

CONT. FACTOR: Equipment Failure **SPILL REPORTED BY:** Other

FACILITY TYPE: Gasoline Station **WATERBODY:**

CALLER REMARKS:
A LEAK IN THE REMOTE FILL. SOIL WAS REMOVED AND LEAK WAS REPAIRED.

ORIGINAL SPILL ASSIGNED TO O'DOWD.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Gasoline	Petroleum	0 G	0 G	Soil,
Gasoline	Petroleum	0 G	0 G	GW,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
GETTY PROPERTIES	125 JERICHO TURNPIKE JERICHO NY 11753	KEVIN SHEA

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

3/14/03: REASSIGNED FROM ROMMEL TO VOUGHT.

11/20/2003-Vought-See closed spill #'s 9830017 and 0211201 at same location.

11/24/2004: Sent letter to Getty requesting an investigatory work plan and environmental site history. (Harrington)

1/13/2005: Approved SI work plan (installation of four (4) monitoring wells). Harrington

3/24/2005: Project transferred to Vought - Region 2. (Harrington)

08/31/2005 - Feng - Project transferred from Vought to Feng.

10/18/2005 - Feng - Spill#: 98-10383 has been consolidated into this spill#.

10/25/2005 - Feng - Subsurface Investigation Report, dated 5/2/2005. on 4/12-13/2005, Tyree installed 3 off-site monitoring wells in sidewalk adjacent to 10th Ave and 1 in sidewalk adjacent to West 24th St as per the Work Plan approved by Harrington

on 1/23/2005. Highly contaminated soil found in B-5(4'-8'), B-6(6'-8'), and B-7(6'-8'). however, goundwater was just slight high contaminated in B-6.

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3/19/2008 - Feng - eDoc Quarterly Monitoring Report 1Q2008. (RJF)

3/20/2008 - Feng - Email to Tyree and Delta for RAP status. (RJF)

3/24/2008 - Feng - Quarterly Monitoring Report, 11/2007 - 1/2008, 2/2008. Active Lukoil gasoline station/convenience store. Groundwater was gauged and sampled 1/14/2008. 9 monitoring wells. No DTW available due to water probe broke onsite. Flows to south. No LNAPL. BTEX range ND to 4,203 ppb (W-1). MTBE range ND to 412 ppb (W-2). (RJF)

7/11/2008 - 2Q2008, 2/2008 - 4/2008, 5/2008. Active Lukoil gasoline station/convenience store. Groundwater was gauged and sampled 4/25/2008. 9 monitoring wells. DTW 9.65' to 11.58' bg. Flows to south. No LNAPL. BTEX range ND to 10,765 ppb (W-3). MTBE range ND to 191 ppb (W-3).

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 9707190

SPILL NAME: GETTY S/S #341 - GETTY PROPERTIES **DEC LEAD:** KGHALE

email Tyree for RAP status. (RJF)

9/4/2008 - Getty Properties portfolio meeting with Delta and Tyree. The dewatering that started 4/2007 was stoped 2/2008. MW-4 was not sampled because storage box was on top of that. Wait to see the rebound before the delineation. Possible monitoring wells will be installed between the service building and the tank. (RJF)

1/6/2009 - Getty Properties portfolio meeting with Delta and Tyree. Review 2Q2009 quarterly for possbile delineation. (RJF)

3/18/2009 - Quarterly Monitoring Report, 5/2008 - 7/2008, 8/2008, by Tyree. Active Lukoil gasoline station convenience store. Groundwater was gauged and sampled 7/22/2008. 9 monitoring wells. NO LNAPL. DTW 9.21' to 10.67' bg. Flows to south. BTEX range ND to 7,530 ppb (W-3). MTBE range ND to 165 ppb (W-3). (RJF)

5/6/2009 - Quarterly Monitoring Report, 8/2008 - 10/2008, 11/2008, by Tyree. Active Lukoil gasoline station convenience store. Groundwater was gauged and sampled 10/30/2008. 10 monitoring wells. NO LNAPL. DTW 8.11' to 9.66' bg. flows to south. BTEX range ND to 20,856 ppb (W-7). MTBE range ND to 192 ppb (W-7). (RJF)

11/6/2009 - 2Q2009, 4/2009-6/2009, 9/2009, pdf, by Tyree. Active Lukoil gasoline station convenience store. 12 monitoring wells. Groundwater was gauged 4/24/2009, 5/29/2009, 6/19/2009 and 7/9/2009. NO LNAPL. DTW 8.11' to 9.66' bg. Flows to south. Groundwater was sampled 6/19/2009. BTEX range ND to 11,198 ppb (W-7). MTBE range ND to 274 ppb (W-2). (RJF)

7/9/2010 - Reviewed Investigation Work Plan, dated 6/3/2010, by Tyree. Tyree proposes 2 wells W-11 and W-12 in west of W-7 and north of W-7. Work Plan is approved. Report due 10/2010.

2/8/2012 - Reviewed the Subsurface Investigation Work Plan, dated 5/17/2011, by Tyree. Tyree proposes to install 2 monitoring wells at the sidewalk along West 24th Street. Tyree mentioned that refusals were hit during the previous attempt to install wells as per the 7/2010 approved work plan.

2/10/2012 - Letter sent to Getty approving the work plan. Report due 4/2012. DEC provides comments, 1) sample groundwater and soil for CP-51 list VOCs; 2) conduct site history review to identify the reason why W-5, W-6 and W-7 with elevated BTEX concentration. Notified Getty that the case has been transferred to Central Office. All the future correspondences shall be directed to the new project manager, Kevin Hale. (J. Feng)

PIN **T & A** **COST CENTER**

CLASS: B4 **CLOSE DATE:** **MEETS STANDARDS:** False

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
One Hunters Point Plaza, 47-40 21st Street, Long Island City, NY 11101
Phone: (718) 482-4995 • **Fax:** (718) 482-6358
Website: www.dec.ny.gov
Email: rjfeng@gw.dec.state.ny.us

Joe Martens
Commissioner

February 10, 2012

Atten: Mr. Kevin Shea
Getty Properties Corp.
125 Jericho Turnpike
Jericho, New York 11753

Re: NYSDEC Spill No. 97-07190
Getty S/S 341, 239 10th Ave, New York, NY

Dear Mr. Shea,

The New York State Department of Environmental Conservation (the Department) has reviewed the Subsurface Investigation Work Plan (Work Plan) dated May 17, 2011, prepared by Tyree Environmental Corp. (Tyree), for the above referenced site. Tyree proposes to install two monitoring wells at both sidewalks along West 24th Street to delineate the extent of the contamination. The Department hereby approves the Work Plan. A report summarizing the findings of this investigation work must be submitted to the Department by April 2012. The Department requires at least five days notice in advance of any field work at the site. The Department also provides the following comments:

1. All the groundwater and soil samples shall be analyzed for the NYSDEC CP-51 list of volatile organic compounds.

2. A review of the site history shall be conducted to find out the reason why elevated BTEX concentrations have been detected in monitoring wells W-5, W-6 and W-7. These monitoring wells are located in the sidewalks along 10th Ave and West 24th Street.

The Responsible Party and its contractors are solely responsible for safe execution of all intrusive and other work performed under the Work Plan. In particular, the Responsible Party and its contractors are responsible for the structural integrity of excavations, and protection of the structural integrity of buildings, utilities, and other structures, both onsite and offsite, that may be adversely affected by these intrusive actions. The Responsible Party and its contractors must obtain any local, state or federal permits or approvals that may be required to perform work under the Work Plan. Further, the Responsible Party and its contractors are solely responsible for the identification of utilities that may be affected by work under the Work Plan and the implementation of all required, appropriate, or necessary health and safety measures during performance of work under the approved Work Plan.

Please note that this spill case has been transferred to the Central Office of the Department. All future correspondences shall be directed to Mr. Kevin Hale, Engineering Geologist II, Division of Environmental Remediation, NYS DEC, 625 Broadway, Albany, NY, 12207.

If you have any questions, please do not hesitate to contact me at the above phone number or email.

Sincerely,

June Feng
Environmental Engineer 1
NYSDEC Region 2

CC: Justin Keller, Tyree/ Raphael Ketani, NYSDEC/ Kevin Hale, NYSDEC

From: "Justin Keller" <JKeller@tyreeorg.com>
To: "Rui Feng" <rjfeng@gw.dec.state.ny.us>, "Raphael Ketani" <rvketani@gw.de...
CC: "Brad Fisher" <Brad.Fisher@anteagroup.com>, "Amy LaBarge" <ALaBarge@tyre...
Date: 1/11/2012 3:59 PM
Subject: Re: Former Getty S/S #00341 (Sp.#97-07190) - 4QMR 2011
Attachments: WorkPlan.sp.9707190.05172011.GPC#341.SIWP.pdf; Justin Keller.vcf

Attached, as requested. Thank you, Raphiel.

Justin C. Keller
Environmental Project Manager
Tyree Environmental Corp.
208 Route 109, Suite 100
Farmingdale, NY 11735
Tel: 631-249-3150 ext. 229
Fax: 631-249-6724
Cell: 631-300-6740

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>>> "Raphael Ketani" <rvketani@gw.dec.state.ny.us> 1/11/2012 3:51 PM
>>>
Good afternoon Justin!

I looked in the e-docs for this case and did not see the May revised work plan. Please send it again, but by e-mail. June will get back to you after she reviews it.

Rafiel

>>> "Justin Keller" <JKeller@tyreeorg.com> 1/11/2012 3:35 PM >>>
Greetings June and Raphiel,

Tyree Environmental Corp. (Tyree), on behalf of Getty Properties Corp. (GPC), is pleased to provide the NYSDEC Region II with the attached Fourth Quarter 2011 Monitoring Report for the Former Getty Service Station #00341 located at 239 10th Avenue,
New York, New York for your review.

Of note: In May 2011 Tyree submitted a revised Subsurface Investigation Work Plan (SIWP) to the NYSDEC for the subject site. The
revised SIWP was developed in accordance with correspondence from the New York State Department of Environmental Conservation (NYSDEC) dated September 15, 2010 in an effort to resolve the drilling refusals previously encountered and documented in Tyree's December 2010 Subsurface Investigation Report. Two (2) monitoring wells will be installed off-site in order to delineate soil and groundwater impacts downgradient of existing MW-7.

Getty would greatly appreciate a timely review of the May 2011 SIWP. With your approval Tyree will obtain the necessary permit(s) and schedule the drilling activities.

Tyree will also incorporate the necessary roadbox replacement for well

MW-10 to the proposed drilling activities described above in order to regain access to that groundwater monitoring location.

If you have any questions, please do not hesitate to contact me.
Thank
you.

Sincerely,

Justin C. Keller
Environmental Project Manager
Tyree Environmental Corp.
208 Route 109, Suite 100
Farmingdale, NY 11735
Tel: 631-249-3150 ext. 229
Fax: 631-249-6724
Cell: 631-300-6740

TYREE - Over 80 Years of quality service to the Petroleum Industry!

Tyree Environmental Corp.

208 Route 109, Suite 100, Farmingdale, New York · Fax: 631.249.6724 · Phone: 631.249.3150

May 17, 2011

New York State
Department of Environmental Conservation Region II
Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101

Attn: Mr. Vadim Brevdo and Mr. Joseph O'Connell

Re: Subsurface Investigation Work Plan
Former Getty Service Station # 00341
239 10th Avenue
New York, New York 10010
NYSDEC Spill # 97-07190

Dear Sirs:

Attached please find a revised Subsurface Investigation Work Plan (SIWP) prepared for the above referenced site. This revised SIWP was developed in accordance with correspondence from the New York State Department of Environmental Conservation (NYSDEC) dated September 15, 2010 in an effort to resolve the drilling refusals previously encountered and documented in Tyree's December 2010 Subsurface Investigation Report. Two (2) monitoring wells will be installed offsite in order to delineate soil and groundwater impacts downgradient of existing monitoring well MW-7. A detailed site map identifying the proposed monitoring wells is enclosed as **Figure 1**. Historical groundwater analytical results are summarized in **Table 1**.

Subsurface Investigation Work Plan

1. A truck mounted drill rig will be utilized to install two (2) groundwater monitoring wells as indicated on the attached site plan (**Figure 1**). The proposed monitoring well MW-11 will be installed into sidewalk along the north side of W. 24th Street approximately 40 feet west of existing monitoring well MW-7. The proposed monitoring well MW-12 will be installed into sidewalk along the south side of W. 24th Street approximately 30 feet west of existing monitoring well MW-8. Soil samples will be physically characterized using the Unified Soil Classification System (USCS) system and qualitatively screened for the presence of volatile organic compounds (VOCs) with a Photoionization Detector (PID). Two (2) soil samples from each monitoring well location will be collected for laboratory analysis, one sample at the interval exhibiting the highest PID reading and the other sample from the soil/groundwater interface. If no recordable PID readings are identified throughout the vertical column, one soil sample will be collected at the soil/groundwater interface. The monitoring wells will be installed to at least

ten (10) feet into groundwater. The depth to water is approximately seven (7) to ten (10) feet below grade.

2. Analytical testing will be performed by a New York State certified laboratory. Groundwater and soil samples will be analyzed for NYSDEC STARS-list volatile organic compounds via EPA Method 8260 and MTBE. A summary of historical groundwater analytical results are included in **Table 1**.

3. The monitoring wells will be installed as 2-inch diameter PVC monitoring wells. Each monitoring well will have fifteen feet of 0.020 slot screen and appropriate length of riser casing. Each well will be finished flush to grade with steel, 8-inch diameter manholes, locking j-plugs and 2' x 2' concrete pads. Monitoring wells MW-11 and MW-12 will be developed using low-flow purging techniques to remove fine-grained particles and increase the hydraulic connection between the surrounding material and the well screen. Following a period of purging equal to three well volumes, groundwater samples will be collected and transferred to laboratory supplied glassware, packed on ice, and shipped via overnight courier to a New York certified laboratory. Once the initial sampling is completed, the wells will be sampled on a quarterly basis.

4. The monitoring wells will be surveyed into the existing monitoring well network to to determine groundwater flow direction.

5. The monitoring well installations will commence following NYSDEC approval. Before any field work begins, a DigSafe markout will be called in to locate any existing utilities. A Subsurface Investigation Report will be prepared and submitted to the NYSDEC within 90 days of work plan approval. This report will include analytical results for soil and groundwater samples presented in tabular format, a site map, and recommendations for further action if needed.

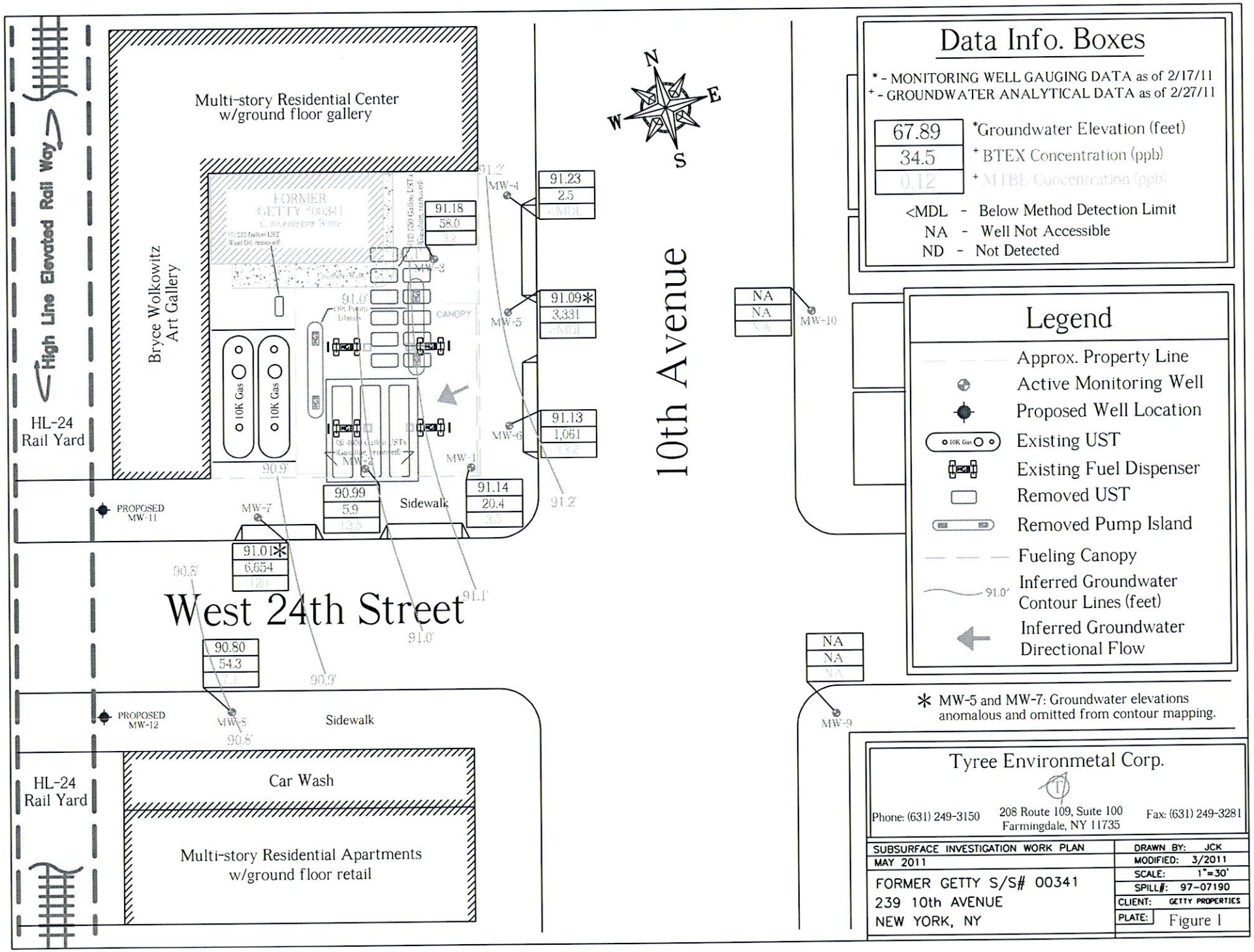
If you have any questions or comments, please feel free to contact me at (631) 249-3150 ext. 229 or at JKeller@TyreeOrg.com.

Sincerely,

Justin C. Keller
Environmental Project Manager

CC: Getty Properties Corp.
Brad Fisher – Antea Group
Encl: (Figure 1)
(Table 1)

Tyree Environmental Corp.



Data Info. Boxes

* - MONITORING WELL GAUGING DATA as of 2/17/11
\+ - GROUNDWATER ANALYTICAL DATA as of 2/27/11

67.89	*Groundwater Elevation (feet)
34.5	+ BTEX Concentration (ppb)
0.12	+ MTBE Concentration (ppb)

<MDL - Below Method Detection Limit
NA - Well Not Accessible
ND - Not Detected

Legend

- Approx. Property Line
- Active Monitoring Well
- Proposed Well Location
- Existing UST
- Existing Fuel Dispenser
- Removed UST
- Removed Pump Island
- Fueling Canopy
- Inferred Groundwater Contour Lines (feet)
- Inferred Groundwater Directional Flow

* MW-5 and MW-7: Groundwater elevations anomalous and omitted from contour mapping.

Tyree Environmetal Corp.

Phone: (631) 249-3150
208 Route 109, Suite 100
Farmingdale, NY 11735
Fax: (631) 249-3281

SUBSURFACE INVESTIGATION WORK PLAN MAY 2011	DRAWN BY: JCK MODIFIED: 3/2011 SCALE: 1"=30' SPILL#: 97-07190 CLIENT: GETTY PROPERTIES PLATE: Figure 1
FORMER GETTY S/S# 00341 239 10th AVENUE NEW YORK, NY	

TABLE 1.

HISTORICAL SUMMARY OF QUARTERLY GROUNDWATER ANALYTICAL RESULTS

FORMER GETTY S/S #00341
239 10th Ave.
New York, New York

Well ID	Sampling Date	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	MTBE (ppb)	Ethyl alcohol (ppb)
MW-1	04/09/03	**5.1**	<MDL	<MDL	<MDL	5.1	9.5	
	07/31/03	**80.3**	**24.4**	**41.6**	**292**	438	**1,050**	
	10/31/03	**45.9**	<MDL	2.3	4.5	52.8	7.5	
	01/09/04	**199**	**23.5**	**16.7**	**57.9**	297	**31.7**	
	04/06/04	**73.7**	3.7	**7.9**	**9.4**	94.7	**19.0**	
	07/21/04	**169**	2.4	**11.1**	**6.4**	189	**26.4**	
	10/06/04	**373**	**12.6**	**33.9**	**15.4**	435	**40.6**	
	01/20/05	**192**	**12.3**	**12.2**	**10.3**	227	**45.0**	
	04/05/05	**181**	**43.6**	**17.3**	**30.4**	272	**50.0**	
	07/21/05	**86.7**	**27.3**	**8.6**	**23.4**	146	**37.3**	
	10/05/05	**7.8**	0.93	<MDL	3.7	12.4	**12.7**	
	01/09/06	**131**	**60.2**	**22.3**	**40.4**	254	**34.0**	
	04/12/06	**60.2**	3.1	**6.0**	**5.5**	74.8	**28.4**	
	07/24/06	**37.8**	2.1	1.4	**15.5**	56.8	7.8	
	10/16/06	**227**	**6.4**	**21.2**	**55.0**	310	**12.3**	
	01/30/07	**118**	**16.0**	**26.4**	**25.0**	185	**163**	
	04/30/07	**735**	**73.7**	**153**	**293**	1,255	**129**	
	07/30/07	**1,400**	**136**	**746**	**1,060**	3,342	**194**	
	10/23/07	**426**	**60.5**	**310**	**393**	1,190	**55.3**	
	01/14/08	**1,820**	**255**	**918**	**1,210**	4,203	**262**	
	04/25/08	**52.6**	4.4	**50.0**	**77.5**	185	5.7	
	07/22/08	**248**	**6.0**	**179**	**138**	571	**14.0**	
	10/30/08	**190**	**5.0**	**97.0**	**70.0**	362	**30.0**	
	06/19/09	**225**	4.5	**69.4**	**42.2**	341	**30.0**	
	08/14/09	**175**	3.3	**84.9**	**27.3**	291	**20.4**	
	11/19/09	**88.0**	0.54	3.7	2.4	94.6	**17.2**	
	02/18/10	**15.4**	<MDL	0.40	0.31	16.1	4.0	
	05/21/10	**115**	**6.8**	**37.4**	**44.2**	203	**10.4**	
	08/04/10	**93.7**	2.9	**64.0**	**26.9**	188	8.0	
	11/24/10	**84.8**	4.8	**7.4**	**12.8**	110	7.0	
	02/17/11	**20.0**	<MDL	0.43	<MDL	20.4	3.5	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

NA - Well Not Accessible
ND - Not Detected
DRY - Well dry; No groundwater sample collected due to insufficient water yield
(Bold value) - Concentration exceeds NYSDEC groundwater standard
<MDL - Below Method Detection Limit*
***Method detection limits are below NYSDEC groundwater standards unless otherwise noted**

TABLE 1.

HISTORICAL SUMMARY OF QUARTERLY GROUNDWATER ANALYTICAL RESULTS

FORMER GETTY S/S #00341
239 10th Ave.
New York, New York

Well ID	Sampling Date	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	MTBE (ppb)	Ethyl alcohol (ppb)
MW-2	04/09/03	<MDL	<MDL	<MDL	**246**	246	**623**	
	07/31/03	**4.0**	<MDL	4.8	1.4	10.2	**14.4**	
	10/31/03	**69.0**	**19.1**	**35.2**	**582**	705	**1,150**	
	01/09/04	**5.5**	<MDL	2.1	1.9	9.4	**39.9**	
	04/06/04	**52.4**	**11.8**	**27.9**	**190**	282	**1,150**	
	07/21/04	**88.7**	**35.7**	**111**	**1,720**	1,955	**1,060**	
	10/06/04	**185**	**4,430**	**3,480**	**20,000**	28,095	**1,780**	
	01/20/05	**41.1**	**12.3**	**51.7**	**528**	633	**586**	
	04/05/05	**41.1**	**17.8**	**67.0**	**713**	839	**423**	
	07/21/05	**12.6**	<MDL	**29.7**	**232**	274	**104**	
	10/05/05	**3.4**	<MDL	0.75	3.0	7.1	**44.5**	
	01/09/06	**30.4**	**7.4**	**58.4**	**247**	343	**231**	
	04/12/06	**17.4**	1.8	**8.9**	1.8	29.8	**291**	
	07/24/06	**5.1**	1.0	2.5	4.9	13.4	**34.8**	
	10/16/06	**14.0**	4.1	**5.8**	**24.3**	48.1	**167**	
	01/30/07	**2.6**	1.2	1.7	3.4	8.9	**23.8**	
	04/30/07	**712**	**117**	**259**	**484**	1,572	**362**	
	07/30/07	**411**	**37.0**	**213**	**136**	797	**393**	
	10/23/07	**286**	**31.7**	**137**	**110**	565	**64.0**	
	01/14/08	**640**	**50.0**	**345**	**249**	1,284	**412**	
	04/25/08	**50.4**	1.1	**22**	**7.9**	81.4	**25.7**	
	07/22/08	**2.0**	1.0	2.0	**21.0**	26.0	**36.5**	
	10/30/08	**6.0**	1.0	4.0	**12.0**	23.0	**38.0**	
	06/19/09	**116**	3.8	**50.7**	**12.9**	183	**274**	
	08/14/09	**192**	1.2	**29.2**	**6.2**	229	**193**	
	11/16/09	**7.3**	<MDL	3.9	<MDL	11.2	**35.7**	
	02/18/10	**2.3**	0.77	2.8	3.9	9.8	**16.2**	
	05/21/10	**4.2**	<MDL	**11.5**	0.49	16.2	**24.4**	
	08/04/10	**14.6**	<MDL	**9.6**	**8.4**	32.6	**13.0**	
	11/24/10	**3.4**	<MDL	<MDL	<MDL	3.4	7.4	<MDL
	02/17/11	**1.9**	<MDL	0.88	3.1	5.9	**13.5**	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

NA - Well Not Accessible
ND - Not Detected
DRY - Well dry; No groundwater sample collected due to insufficient water yield
(Bold value) - Concentration exceeds NYSDEC groundwater standard
<MDL - Below Method Detection Limit*
***Method detection limits are below NYSDEC groundwater standards unless otherwise noted**

TABLE 1.

HISTORICAL SUMMARY OF QUARTERLY GROUNDWATER ANALYTICAL RESULTS

FORMER GETTY S/S #00341
239 10th Ave.
New York, New York

Well ID	Sampling Date	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	MTBE (ppb)	Ethyl alcohol (ppb)
MW-3	04/09/03	**204**	**32.9**	<MDL	**157**	394	**1,050**	
	07/31/03	**1,270**	**2,960**	**537**	**2,647**	7,414	**1,210**	
	10/31/03	**1,160**	**4,180**	**749**	**3,740**	9,829	**1,740**	
	01/09/04	**285**	**1,050**	**133**	**800**	2,268	**754**	
	04/06/04	**746**	**379**	**122**	**1,250**	2,497	**315**	
	07/21/04	**998**	**3,460**	**361**	**1,880**	6,699	**1,280**	
	10/06/04	**511**	**1,830**	**257**	**1,510**	4,108	**484**	
	01/20/05	**1,240**	**5,900**	**897**	**2,770**	10,807	**174**	
	04/05/05	**652**	**3,700**	**769**	**2,430**	7,551	**179**	
	07/21/05	**237**	**641**	**155**	**616**	1,649	**461**	
	10/05/05	**336**	**1,040**	**218**	**924**	2,518	**262**	
	01/09/06	**139**	**483**	**285**	**737**	1,644	**62.4**	
	04/12/06	**1,280**	**4,280**	**770**	**2,190**	8,520	**56.8**	
	07/24/06	**635**	**3,260**	**346**	**2,621**	6,862	**114**	
	10/16/06	**1,240**	**6,680**	**705**	**6,560**	15,185	**144**	
	01/30/07	**1,170**	**8,510**	**1,740**	**6,990**	18,410	**102**	
	04/30/07	DRY	DRY	DRY	DRY	DRY	DRY	
	07/30/07	**1,830**	**397**	**955**	**851**	4,033	**208**	
	10/23/07	**1,500**	**190**	**609**	**432**	2,731	**252**	
	01/14/08	**1,570**	**275**	**326**	**614**	2,785	**370**	
	04/25/08	**1,560**	**305**	**2,150**	**6,750**	10,765	**191**	
	07/22/08	**1,040**	**350**	**1,800**	**4,340**	7,530	**165**	
	10/30/08	**756**	**1,650**	**1,110**	**4,240**	7,756	**192**	
	06/19/09	**692**	**185**	**2,530**	**6,000**	9,407	**76.8**	
	08/14/09	**561**	**1,100**	**1,290**	**5,260**	8,211	**75.5**	
	11/16/09	**288**	**729**	**1,180**	**4,490**	6,687	**27.8**	
	02/18/10	**106**	**44.5**	**679**	**1,470**	2,300	**14.8**	
	05/21/10	**15.2**	1.0	**35.7**	**45.7**	97.6	**10.0**	
	08/04/10	**96.7**	**5.3**	**371**	**231**	704	<MDL	<MDL
	11/24/10	**283**	**80.7**	**1,320**	**1,670**	3,354	**13.7**	
	02/17/11	**6.9**	<MDL	**9.2**	**41.9**	58.0	3.2	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

NA - Well Not Accessible
ND - Not Detected
DRY - Well dry; No groundwater sample collected due to insufficient water yield
(Bold value) - Concentration exceeds NYSDEC groundwater standard
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TABLE 1.

HISTORICAL SUMMARY OF QUARTERLY GROUNDWATER ANALYTICAL RESULTS

FORMER GETTY S/S #00341

239 10th Ave.

New York, New York

Well ID	Sampling Date	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	MTBE (ppb)	Ethyl alcohol (ppb)
MW-4	07/21/05	**25.9**	**30.0**	**1,180**	**517**	1,753	<MDL	
	10/05/05	**19.5**	**29.9**	**967**	**402**	1,418	<MDL	
	01/09/06	**14.6**	**36.6**	**700**	**389**	1,140	<MDL	
	04/12/06	**24.8**	**33.1**	**1,000**	**1,380**	2,438	<MDL	
	07/24/06	**15.2**	**18.4**	**639**	**1,374**	2,047	<MDL	
	10/16/06	**42.3**	**50.4**	**1,750**	**5,478**	7,321	<MDL	
	01/30/07	NA	NA	NA	NA	NA	NA	
	04/30/07	NA	NA	NA	NA	NA	NA	
	07/30/07	NA	NA	NA	NA	NA	NA	
	10/23/07	NA	NA	NA	NA	NA	NA	
	01/14/08	NA	NA	NA	NA	NA	NA	
	04/25/08	NA	NA	NA	NA	NA	NA	
	07/22/08	NA	NA	NA	NA	NA	NA	
	10/30/08	NA	NA	NA	NA	NA	NA	
	06/19/09	NA	NA	NA	NA	NA	NA	
	08/14/09	<MDL	<MDL	<MDL	**49.7**	49.7	<MDL	
	11/16/09	<MDL	<MDL	0.51	1.9	2.4	<MDL	
	02/18/10	<MDL	<MDL	3.2	**6.1**	9.3	<MDL	
	05/21/10	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	08/04/10	0.81	<MDL	0.46	<MDL	ND	<MDL	<MDL
	11/24/10	0.66	<MDL	0.61	0.39	1.7	<MDL	
	02/17/11	<MDL	<MDL	0.77	1.7	2.5	<MDL	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

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New York, New York

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MW-5	07/21/05	**1,510**	**185**	**2,280**	**6,000**	9,975	<46.0	
	10/05/05	**2,490**	**158**	**3,050**	**5,910**	11,608	**74.0**	
	01/09/06	**662**	**77.5**	**1,140**	**3,290**	5,170	<MDL	
	04/12/06	**2,320**	**119**	**2,190**	**3,340**	7,969	**102**	
	07/24/06	**1,440**	**128**	**1,940**	**7,460**	10,968	<MDL	
	10/16/06	**2,220**	**149**	**2,930**	**10,328**	15,627	**27.5**	
	01/30/07	**1,950**	**176**	**3,090**	**5,390**	10,606	**32.7**	
	04/30/07	DRY	DRY	DRY	DRY	DRY	DRY	
	07/30/07	**2,050**	**170**	**2,480**	**1,280**	5,980	**110**	
	10/23/07	DRY	DRY	DRY	DRY	DRY	DRY	
	01/14/08	DRY	DRY	DRY	DRY	DRY	DRY	
	04/25/08	**1,640**	**95.1**	**1,700**	**1,780**	5,215	**40.7**	
	07/22/08	**1,100**	**79.0**	**1,300**	**1,640**	4,119	**18.0**	
	10/30/08	**746**	**81.0**	**1,820**	**3,030**	5,677	5.0	
	06/19/09	**802**	**77.9**	**2,040**	**3,050**	5,970	6.2	
	08/14/09	**578**	**66.5**	**1,790**	**2,950**	5,385	<MDL	
	11/16/09	**536**	**69.3**	**1,960**	**2,850**	5,415	**13.7**	
	02/18/10	**504**	**72.9**	**1,530**	**2,660**	4,767	5.7	
	05/21/10	**200**	**48.9**	**2,480**	**3,580**	6,309	<MDL	
	08/04/10	**491**	**51.4**	**2,290**	**3,350**	6,182	<MDL	
	11/24/10	**503**	**49.5**	**1,770**	**2,610**	4,933	<MDL	
	02/17/11	**109**	**22.4**	**1,130**	**2,070**	3,331	<MDL	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

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239 10th Ave.

New York, New York

Well ID	Sampling Date	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	MTBE (ppb)	Ethyl alcohol (ppb)
MW-6	07/21/05	**918**	**80.1**	**1,880**	**1,840**	4,718	**57.7**	
	10/05/05	**572**	**63.7**	**2,000**	**1,700**	4,336	<MDL	
	01/09/06	**337**	**41.2**	**1,650**	**1,300**	3,328	<MDL	
	04/12/06	**322**	**31.3**	**1,010**	**1,060**	2,423	**18.5**	
	07/24/06	**431**	**31.1**	**1,180**	**1,340**	2,982	**23.0**	
	10/16/06	**570**	**37.5**	**1,180**	**1,112**	2,900	<MDL	
	01/30/07	**548**	**36.0**	**1,040**	**329**	1,953	**36.0**	
	04/30/07	NA	NA	NA	NA	NA	NA	
	07/30/07	NA	NA	NA	NA	NA	NA	
	10/23/07	**1,380**	**126**	**2,650**	**975**	5,131	**61.3**	
	01/14/08	**1,380**	**121**	**1,870**	**704**	4,075	**77.0**	
	04/25/08	**1,450**	**132**	**2,300**	**1,410**	5,292	**65.0**	
	07/22/08	**984**	**99.0**	**2,300**	**1,100**	4,483	**47.0**	
	10/30/08	**919**	**107**	**2,350**	**1,090**	4,466	**47.0**	
	06/19/09	**634**	**52.0**	**1,410**	**545**	2,641	**87.6**	
	08/14/09	**642**	**42.0**	**976**	**385**	2,045	**108**	
	11/16/09	**403**	**29.7**	**740**	**212**	1,385	**61.5**	
	02/18/10	**280**	**25.7**	**654**	**172**	1,132	**34.0**	
	05/21/10	**452**	**33.8**	**824**	**161**	1,471	**39.6**	
	08/04/10	**446**	**31.1**	**990**	**178**	1,645	**34.2**	
	11/24/10	**103**	**7.6**	**241**	**38.6**	390	**14.8**	
	02/17/11	**196**	**20.0**	**657**	**188**	1,061	**18.2**	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

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FORMER GETTY S/S #00341

239 10th Ave.

New York, New York

Well ID	Sampling Date	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	MTBE (ppb)	Ethyl alcohol (ppb)
MW-7	07/21/05	**3,870**	**4,960**	**1,710**	**7,690**	18,230	**16,700**	
	10/05/05	**881**	**140**	**370**	**1,070**	2,461	**211**	
	01/09/06	**653**	**35.3**	**352**	**972**	2,012	**127**	
	04/12/06	**6,310**	**8,870**	**1,520**	**6,080**	22,780	**8,350**	
	07/24/06	**6,320**	**5,590**	**1,430**	**11,560**	24,900	**4,700**	
	10/16/06	**6,460**	**6,370**	**1,880**	**15,700**	30,410	**3,330**	
	01/30/07	NA	NA	NA	NA	NA	NA	
	04/30/07	NA	NA	NA	NA	NA	NA	
	07/30/07	**451**	**488**	**609**	**1,540**	3,088	**30.0**	
	10/23/07	**197**	**97.2**	**518**	**389**	1,201	9.2	
	01/14/08	**318**	**119**	**343**	**470**	1,250	**50.0**	
	04/25/08	**758**	**472**	**520**	**1,440**	3,190	**44.9**	
	07/22/08	**2,290**	**292**	**704**	**2,520**	5,806	**145**	
	10/30/08	**3,010**	**966**	**3,380**	**13,500**	20,856	**143**	
	06/19/09	**2,160**	**718**	**1,700**	**6,620**	11,198	**128**	
	08/14/09	**1,540**	**436**	**1,910**	**6,300**	10,186	**241**	
	11/16/09	**2,610**	**414**	**3,910**	**13,500**	20,434	**272**	
	02/18/10	**532**	**12.6**	**692**	**1,360**	2,597	**69.9**	
	05/21/10	**680**	**17.4**	**885**	**2,320**	3,902	**75.8**	
	08/04/10	**2,280**	**339**	**2,940**	**9,060**	14,619	<MDL	<MDL
	11/24/10	**656**	**29.4**	**683**	**1,600**	2,968	**49.5**	
	02/17/11	**691**	**65.1**	**978**	**4,920**	6,654	**120**	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

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239 10th Ave.

New York, New York

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MW-8	07/24/06	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	10/16/06	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	01/30/07	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	04/30/07	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	07/30/07	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	10/23/07	<MDL	<MDL	<MDL	<MDL	ND	2.8	
	01/14/08	<MDL	<MDL	<MDL	<MDL	ND	5.6	
	04/25/08	<MDL	<MDL	<MDL	<MDL	ND	1.1	
	07/22/08	**26.0**	<MDL	<MDL	<MDL	26.0	**64.0**	
	10/30/08	<MDL	<MDL	<MDL	<MDL	ND	**13.0**	
	06/19/09	<MDL	<MDL	<MDL	<MDL	ND	0.63	
	08/14/09	<MDL	<MDL	<MDL	<MDL	ND	0.23	
	11/16/09	<MDL	<MDL	<MDL	<MDL	ND	1.5	
	02/18/10	0.68	<MDL	<MDL	<MDL	0.68	8.8	
	05/21/10	**3.7**	<MDL	<MDL	<MDL	3.7	4.0	
	08/04/10	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	11/24/10	<MDL	**6.6**	3.3	**22.6**	32.5	1.4	<MDL
	02/17/11	**54.3**	<MDL	<MDL	<MDL	54.3	7.1	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

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MW-9	07/24/06	NA	NA	NA	NA	NA	NA	
	10/16/06	NA	NA	NA	NA	NA	NA	
	01/30/07	NA	NA	NA	NA	NA	NA	
	04/30/07	NA	NA	NA	NA	NA	NA	
	07/30/07	NA	NA	NA	NA	NA	NA	
	10/23/07	NA	NA	NA	NA	NA	NA	
	01/14/08	NA	NA	NA	NA	NA	NA	
	04/25/08	<MDL	<MDL	<MDL	<MDL	ND	3.4	
	07/22/08	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	10/30/08	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	06/19/09	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	08/14/09	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	11/16/09	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	02/18/10	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	05/21/10	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	08/04/10	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	11/24/10	<MDL	1.9	1.2	**7.8**	10.9	<MDL	
	02/17/11	NA	NA	NA	NA	NA	NA	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

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MW-10	07/24/06	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	10/16/06	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	01/30/07	<MDL	1.0	1.0	1.0	3.0	<MDL	
	04/30/07	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	07/30/07	<MDL	<MDL	<MDL	1.0	1.0	<MDL	
	10/23/07	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	01/14/08	DRY	DRY	DRY	DRY	DRY	DRY	
	04/25/08	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	07/22/08	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	10/30/08	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	06/19/09	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	08/14/09	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	11/16/09	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	02/18/10	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	05/21/10	<MDL	<MDL	<MDL	<MDL	ND	<MDL	
	08/04/10	**4.2**	1.1	**12.8**	**29.3**	47.4	0.25	
	11/24/10	NA	NA	NA	NA	NA	NA	
	02/17/11	NA	NA	NA	NA	NA	NA	
NYSDEC Groundwater Standard		1	5	5	5	No Standard Available	10	No Standard Available

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QUARTERLY MONITORING REPORT

FORMER GETTY SERVICE STATION #00341

239 10th Avenue
New York, New York

NYSDEC Spill # 97-07190
Tyree Project #2120213-422

Report Prepared For:

Mr. Brad Fisher
Antea Group, on behalf of Getty Properties Corp.
500 Summit Lake Drive, Suite 150
Valhalla, New York 10595

Report Prepared By:

Tyree Environmental Corp.
208 Route 109, Suite 100
Farmingdale, New York 11735

REPORTING PERIOD – OCTOBER 2011 THROUGH DECEMBER 2011

INTRODUCTION

This Quarterly Monitoring Report (QMR) has been prepared by Tyree Environmental Corp. (Tyree), on behalf of Getty Properties Corp. (Getty), to summarize the groundwater sampling and gauging conducted at the subject site (Service Station) in accordance with the requirements set forth by the New York State Department of Environmental Conservation (NYSDEC) regarding spill number 97-07190. A map depicting the current site layout is included in **Figure 1**.

SITE DESCRIPTION

The subject property, located at 239 10th Avenue, New York, New York, is currently utilized as a LukOil gas station that provides commercial gasoline retail and automotive service. The subject site currently consists of a 1-story masonry building with convenience store, office and restroom. The site is presently improved with two (2) 10,000-gallon gasoline underground storage tanks (USTs), fueling canopy, two (2) dispenser pump islands and a total of four (4) product dispensers.

The subject property is bordered by 10th Avenue followed by multi-level residential apartments with ground-floor commercial fronts to the east and West 24th Street followed by a 1-story car wash to the south. The Bryce Wolkowitz Art Gallery and multi-level residential center surrounds the remainder of the property to the north and to the west.

There are currently three (3) on-site monitoring wells [MW-1 through MW-3] and seven (7) off-site monitoring wells [MW-4 through MW-10] utilized in the ongoing groundwater monitoring program. Historical summaries of the groundwater elevation data and groundwater chemistry data have been provided in **Tables 1 and 2**, respectively.

SITE GEOLOGY / HYDROGEOLOGY

The Bedrock Geologic Map of New York (Lower Hudson Sheet) identifies the lithology in the area of the site as metamorphic rocks of sedimentary and volcanic origin, specifically Fordham gneiss. The subsurface is characterized by bedrock that is exposed generally within one meter of the surface (Cadwell et al. 1989). The overburden soil is characterized as till deposited beneath glacier ice consisting of variable texture (boulders to silt), usually poorly sorted sand-rich diamict, with varying degrees of permeability and compaction measuring between 1-50 meters in thickness (Sirkin et al. 1988).

The surficial geology at the subject site has been investigated up to a maximum depth of 25 feet below grade (fbg). The depth of the bedrock surface beneath the subject site has not yet been determined. The geologic conditions encountered during previous subsurface investigations consisted mainly of fine to medium grained sands mixed with gravels, boulders, construction debris and interbedded layers of silt.

The site topography is generally flat and the surface elevation is situated at approximately 43 feet above mean sea level (msl). Groundwater occurs within the unconsolidated soils at depths ranging from approximately 7 to 10 fbg and currently flows to the south. Based on historical gauging data, there appears to be an appreciable degree of seasonal variation in the direction of groundwater flow at the site, periodically fluctuating between south, southwest and west.

SITE HISTORY

On September 17, 1997 Tyree conducted a repair of the remote fill located along the southern edge of the subject property. During the repair activities petroleum impacted soil was encountered and spill number 97-07190 was issued by the NYSDEC Region II. Approximately one (1) cubic yard of impacted soil was removed from around the fill portal. In 1998 Tyree removed three (3) 4000-gallon underground storage tanks (USTs), twelve (12) 550-gallon gasoline USTs, one (1) 275-gallon fuel oil UST, two (2) fueling pump islands and the remote fill from the subject site as per the EPA mandate for tank upgrades. During the removal activities petroleum impacted soil was encountered around the USTs and spill number 98-10383 was issued by the NYSDEC Region II. A total of

1,852.91 tons of impacted soil was removed up to a depth of twenty (20) fbg from the former UST locations and disposed of at Posillico Bros. of Farmingdale, New York.

Following the removal of impacted soils, nine (9) endpoint samples were collected around the gasoline USTs at a depth of five (5) to ten (10) fbg. Laboratory analytical results identified concentrations of volatile organic compounds (VOCs) including MTBE exceeding NYSDEC guidance values from samples collected from bottom and from the south and east walls of the tank field. One (1) endpoint sample was collected from bottom of the fuel oil UST at a depth of twenty (20) fbg. Laboratory analytical results identified concentrations of VOCs including MTBE as well as semi-volatile organic compounds (SVOCs) exceeding NYSDEC guidance values from the bottom sample. Spill number 98-10383 was subsequently closed by the NYSDEC on October 18, 2005.

In June 2000 Tyree began collecting groundwater samples from an existing monitoring well [MW-3] on-site previously installed by outside contractors and located in the northeast corner of the subject property. Baseline groundwater analytical results identified elevated concentrations of VOCs including MTBE exceeding NYSDEC Groundwater Quality Standards (GWQS).

In April 2001 Tyree installed monitoring wells MW-1 and MW-2 along the southern edge of the property to delineate the hydrocarbon impacts on-site. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 25 fbg with 23 feet of 0.020 slot well screen and appropriate riser casing. Detailed subsurface lithology at each boring location was recorded in field boring logs however no representative soil samples were collected for analysis during the subsurface investigation of 2001. Baseline groundwater analytical results for wells MW-1 and MW-2 identified detectable levels of VOCs including MTBE exceeding NYSDEC GWQS.

In April 2005 monitoring wells MW-4 through MW-7 were installed in the sidewalk bordering the subject property along 10th Avenue and West 24th Street to delineate soil and groundwater impacts off-site. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 20 fbg with 15 feet of 0.020 slot well screen and appropriate riser casing. Laboratory analytical results for soil samples collected from MW-5 through MW-7 identified VOCs exceeding NYSDEC standards. Baseline groundwater analytical results for wells MW-4, MW-6 and MW-7 indicated detectable levels of VOCs including MTBE exceeding NYSDEC GWQS.

In May 2006 monitoring wells MW-8 through MW-10 were installed in the sidewalk across 10th Avenue and West 24th Street to further characterize hydrogeologic conditions and to delineate soil and groundwater impacts off-site. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 20 fbg with 15 feet of 0.020 slot well screen and appropriate riser casing. Laboratory analytical results from soil samples collected during the subsurface investigation did not identify any VOCs or SVOCs exceeding NYSDEC standards. Baseline groundwater analytical results did not identify petroleum impacts to groundwater above NYSDEC standards at any of the off-site locations for MW-8 through MW-10.

On September 15, 2010 Tyree conducted a subsurface investigation at the subject site in order to further delineate groundwater impacts north and west of existing monitoring well MW-7 in accordance with the meeting held between the NYSDEC, Tyree, and Antea Group on February 24, 2010. Tyree advanced six (6) borings [RF-1 through RF-6] on and off-site in an attempt to install two (2) new groundwater monitoring wells. All boring attempts resulted in refusal at a maximum depth of five fbg due to various subsurface conditions (impenetrable rock, existing municipal utilities and collapsing pea gravel in close proximity to the USTs and the associated vent lines).

WELL GAUGING / SAMPLING INFORMATION

Prior to sampling, each monitoring well was gauged for static water level and then purged of three well volumes or until dry. Once the groundwater within each monitoring well recharged to at least 90 percent of its static water level, groundwater samples were collected. Summaries of the groundwater elevation data and groundwater chemistry data measured during the October 28, 2011 groundwater sampling event (including complete historical data) have been provided in **Tables 1 and 2**, respectively.

Dates Wells Gauged:	October 28, 2011
Number of Wells Gauged:	Nine (9)
Gauged Well Identifications:	MW-1 through MW-9
Wells Not Gauged and Reason:	MW-10 – Manhole cover sealed shut - requires repair or replacement.
Dates Wells Sampled:	October 28, 2011
Number of Wells Sampled:	Nine (9)
Sampled Well Identifications:	MW-1 through MW-9
Wells Not Sampled and Reason:	MW-10 – Manhole cover sealed shut - requires repair or replacement.
Liquid Phase Hydrocarbons (LPH) Detected and LPH Thickness:	None
Generalized Groundwater Flow Direction:	South
Wells Not Used in Contouring and Reason:	None

Laboratory Analytical Parameters and Methods: BTEX, MTBE: MW-1 through MW-9 via United States Environmental Protection Agency (USEPA) Method 8260

New York-Certified Laboratory: Accutest Laboratories; Dayton, New Jersey

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results associated with the October 28, 2011 groundwater sampling event indicate that target compounds of concern (COCs) exceeded NYSDEC groundwater standards at the following monitoring well locations:

MW-1	benzene (345 ppb), toluene (8.8 ppb), ethylbenzene (6.2 ppb), total xylenes (7.1 ppb) and MTBE (11.2 ppb)
MW-2	MTBE (21.8 ppb)
MW-3	benzene (15.7 ppb)
MW-4	none
MW-5	benzene (94.7 ppb), toluene (18.6 ppb), ethylbenzene (1,490 ppb) and total xylenes (2,350 ppb)
MW-6	benzene (220 ppb), toluene (12.8 ppb), ethylbenzene (247 ppb) and total xylenes (72.8 ppb)
MW-7	benzene (1,030 ppb), toluene (116 ppb), ethylbenzene (2,520 ppb), total xylenes (6,360 ppb) and MTBE (89.7 ppb)
MW-8	none
MW-9	none

Historical groundwater elevation results are summarized in **Table 1** and plotted over time in **Graph 1** (Hydrograph). A groundwater elevation map for the October 28, 2011 groundwater gauging event is included as **Figure 1**. Historical groundwater analytical results are summarized in **Table 2** and plotted in **Graph 2** (Total BTEX vs. Time) and **Graph 3** (MTBE vs. Time). Total BTEX and MTBE plume maps associated with the October 28, 2011 groundwater sampling event are included as **Figures 2 and 3**, respectively. In addition, a copy of the original laboratory analytical data package associated with the October 28, 2011 groundwater sampling event has been included in **Appendix A**.

SITE PROGRESS UPDATE

In May 2011 Tyree submitted a revised Subsurface Investigation Work Plan (SIWP) to the NYSDEC for the subject site. The revised SIWP was developed in accordance with correspondence from the New York State Department of Environmental Conservation (NYSDEC) dated September 15, 2010 in an effort to resolve the drilling refusals previously encountered and documented in Tyree's December 2010 Subsurface Investigation Report. Two (2) monitoring wells will be installed off-site in order to delineate soil and groundwater impacts downgradient of existing MW-7. Upon approval Tyree will schedule the drilling activities.

Tyree will also incorporate the necessary roadbox replacement for well MW-10 to the proposed drilling activities described above in order to regain access to that groundwater monitoring location.

SUMMARY OF UPCOMING EVENTS

Next Groundwater Sampling Event:	February 2012
Next Report Submittal Date:	April 2012 – First Quarter 2012 Monitoring Report

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Appendix A Groundwater Laboratory Analytical Data Package – October 28, 2011

Report Prepared By:
TYREE ENVIRONMENTAL CORP.

Justin C. Keller
Environmental Project Manager

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 2
Spill Number: 9707190

Spill Date/Time

Spill Date: 09/17/1997 **Spill Time:** 03:00:00 PM
Call Received Date: 09/17/1997 **Call Received Time:** 04:00:00 PM

Location

Spill Name: GETTY S/S #341 - GETTY PROPERTIES
Address: 239 10TH AVE
City: MANHATTAN **County:** NEW_YORK

Spill Description

Material Spilled	Amount Spilled	Resource Affected
Gasoline	UNKNOWN	Soil , Groundwater

Cause: Equipment Failure
Source: Gasoline Station
Waterbody:

Record Close

Date Spill Closed: Not closed

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.
Refine Current Search

M9245
239-243 10TH AVENUE
New York, NY 10001

Inquiry Number: 3543187.2s
March 13, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

239-243 10TH AVENUE
NEW YORK, NY 10001

COORDINATES

Latitude (North):	40.7485000 - 40° 44' 54.60"
Longitude (West):	74.0038000 - 74° 0' 13.68"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	584102.5
UTM Y (Meters):	4511104.5
Elevation:	12 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981
North Map:	40074-G1 WEEHAWKEN, NJ NY
Most Recent Revision:	1995
Northeast Map:	40073-G8 CENTRAL PARK, NY NJ
Most Recent Revision:	1995
East Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2010, 2011
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LOT 32,TAXBLOCK 696 239 10 AVENUE MANHATTAN, NY 10001	NY E DESIGNATION	N/A
GETTY GAS STATION 239 10 AV NYC, NY	NY LTANKS Date Closed: 7/29/1994 NY HIST LTANKS Date Closed: 07/29/94 NY Spills Date Closed: 11/16/2005	N/A

EXECUTIVE SUMMARY

GETTY SERVICE STATION #341 239 TENTH AVENUE NEW YORK, NY 10011	NY UST NY HIST UST	N/A
239 10TH AVENUE/GETTY 239 10TH AVENUE NEW YORK CITY, NY	NY HIST LTANKS Date Closed: 07/29/94	N/A
239 10TH AVE 239 10TH AVE NEW YORK, NY 10001	EDR US Hist Auto Stat	N/A
GETTY GAS #341 239 10TH AVE MANHATTAN, NY	NY Spills Date Closed: 11/20/2003 Date Closed: 8/1/2003 **Additional key fields are available in the Map Findings section* NY Hist Spills	N/A
10TH AVE. & 24TH STREET 239 10TH AVE. NEW YORK, NY	NY Hist Spills	N/A
GETTY STATION #341 239 10TH AVE MANHATTAN, NY	NY Hist Spills	N/A
239 10TH AVE/MANH/GETTY 239 10TH AVENUE NEW YORK CITY, NY	NY LTANKS Date Closed: 7/16/1992 Date Closed: 7/29/1994 NY HIST LTANKS Date Closed: 07/16/92	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL..... Proposed National Priority List Sites

EXECUTIVE SUMMARY

NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

NY SHWS..... Inactive Hazardous Waste Disposal Sites in New York State
NJ SHWS..... Known Contaminated Sites in New Jersey
NY VAPOR REOPENED..... Vapor Intrusion Legacy Site List

State and tribal landfill and/or solid waste disposal site lists

NJ SWF/LF..... Solid Waste Facility Directory

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

NJ UST..... Underground Storage Tank Data
NY CBS UST..... Chemical Bulk Storage Database
NY MOSF UST..... Major Oil Storage Facilities Database
NY CBS AST..... Chemical Bulk Storage Database
NY MOSF AST..... Major Oil Storage Facilities Database
NY MOSF..... Major Oil Storage Facility Site Listing
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

NJ ENG CONTROLS..... Declaration Environmental Restriction/Deed Notice Sites
NJ INST CONTROL..... Classification Exception Area Sites

NY RES DECL..... Restrictive Declarations Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
NJ VCP..... Voluntary Cleanup Program Sites

State and tribal Brownfields sites

NY ERP..... Environmental Restoration Program Listing
NJ BROWNFIELDS..... Brownfields Database

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
NY SWRCY..... Registered Recycling Facility List
NY SWTIRE..... Registered Waste Tire Storage & Facility List
NJ SWRCY..... Approved Class B Recycling Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
NY DEL SHWS..... Delisted Registry Sites
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information
NY LIENS..... Spill Liens Information
NJ LIENS..... Environmental LIENS

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
NY HSWDS	Hazardous Substance Waste Disposal Site Inventory
NY UIC	Underground Injection Control Wells
NJ UIC	Underground Injection Wells Database
NJ DRYCLEANERS	Drycleaner List
NY NPDES	State Pollutant Discharge Elimination System
NJ NPDES	New Jersey Pollutant Discharge Elimination System Dischargers
NY AIRS	Air Emissions Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
NY COAL ASH	Coal Ash Disposal Site Listing
NJ COAL ASH	Coal Ash Listing
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
NJ Financial Assurance	Financial Assurance Information Listing
COAL ASH DOE	Steam-Electric Plant Operation Data
PCB TRANSFORMER	PCB Transformer Registration Database
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 02/01/2013 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUDSON RIVER PCBS	***NO STREET APPLICABLE***	***W 1/4 - 1/2 (0.347 mi.)***	***0***	***37***

EXECUTIVE SUMMARY

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/04/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUDSON RIVER PCBS	***NO STREET APPLICABLE***	***W 1/4 - 1/2 (0.347 mi.)***	***0***	***37***

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/05/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANHATTAN GENERAL MAIL FACILIT	WEST 29TH & 9TH AVE	ENE 1/4 - 1/2 (0.299 mi.)	374	1180

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 02/12/2013 has revealed that there are 3 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AVENUE WORLD SCHOOL THE	259 10TH AVE	NNE 0 - 1/8 (0.072 mi.)	H66	215
SYBERT-NICHOLAS PRINT CORP-420	***420 WEST 25TH ST***	***ESE 1/8 - 1/4 (0.139 mi.)***	***AA171***	***536***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CON EDISON - VAULT 1535	***26 ST 601***	***NW 1/8 - 1/4 (0.215 mi.)***	***BE322***	***1021***

EXECUTIVE SUMMARY

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONE HOUR MARTINIZING	232 9TH AVE	ESE 1/8 - 1/4 (0.182 mi.)	AS263	836
TANASEYBERT LLC	***263 9TH AVE***	***E 1/8 - 1/4 (0.189 mi.)***	***AV273***	***862***

Lower Elevation	Address	Direction / Distance	Map ID	Page
DIA ART FOUNDATION	***535 W 22ND ST***	***SW 0 - 1/8 (0.124 mi.)***	***T155***	***474***
NYCT-PARKING LOT	***220 11TH AVENUE***	***NW 1/8 - 1/4 (0.166 mi.)***	***AO241***	***773***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 02/12/2013 has revealed that there are 15 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
INTERGRATED IMAGING CTR-508 W	***508 WEST 26TH STREET***	***N 0 - 1/8 (0.105 mi.)***	***Q122***	***381***
CON EDISON	426 W 23RD ST	SE 1/8 - 1/4 (0.145 mi.)	Z178	564
SPERANZA PROPERTIES LLC	448 W 22ND ST	SSE 1/8 - 1/4 (0.148 mi.)	AF184	571
TENANTS IN COMMON 27TH STREET	***537-545 W 27TH ST***	***N 1/8 - 1/4 (0.159 mi.)***	***AI206***	***660***
LONDON TERRACE CLEANERS	***410 W 24TH ST***	***SE 1/8 - 1/4 (0.163 mi.)***	***AD225***	***715***
MANHATTAN FRENCH CLEANERS	***198 9TH AVE***	***SSE 1/8 - 1/4 (0.212 mi.)***	***BA313***	***995***
RITE AID #4196	188 9TH AVE	SSE 1/8 - 1/4 (0.227 mi.)	BI336	1056

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONSTRUCTION SITE	511 W 24TH ST	WNW 0 - 1/8 (0.049 mi.)	C34	137
EXXON 3-2253	***215 10TH AVE***	***SSW 0 - 1/8 (0.075 mi.)***	***F69***	***222***
23RD STREET VENTURE LLC	540 W 24TH ST	WNW 0 - 1/8 (0.099 mi.)	K109	348
EMPIRE CITY SUBWAY CO LTD	***177-183 10TH AVE***	***SSW 1/8 - 1/4 (0.180 mi.)***	***AJ256***	***820***
EVERGREENE PAINTING STUDIOS	***635 W 23RD ST***	***WNW 1/8 - 1/4 (0.191 mi.)***	***AT276***	***879***
601 WEST ASSOCIATES- STARRETT	***601 W 26TH ST - BASEMEN***	***NW 1/8 - 1/4 (0.210 mi.)***	***BE301***	***929***
FBI AUTOMOTIVE REPAIR UNIT	***601 W 26TH ST - 2ND FLO***	***NW 1/8 - 1/4 (0.210 mi.)***	***BE302***	***940***
BAYVIEW CORRECTIONAL FACILITY	550 W 20TH ST	SW 1/8 - 1/4 (0.221 mi.)	BG330	1041

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 12/19/2012 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUDSON RIVER PCBS	*NO STREET APPLICABLE*	*W 1/4 - 1/2 (0.347 mi.)*	*0*	*37*

US INST CONTROL: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROL list, as provided by EDR, and dated 12/19/2012 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUDSON RIVER PCBS	*NO STREET APPLICABLE*	*W 1/4 - 1/2 (0.347 mi.)*	*0*	*37*

State and tribal landfill and/or solid waste disposal site lists

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 01/07/2013 has revealed that there are 2 NY SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RED BALL INTERIOR DEMOLITION	*625 WEST 29 STREET*	*NNW 1/4 - 1/2 (0.313 mi.)*	*382*	*1199*
CON EDISON-W 28TH STREET	*281 11TH AVENUE*	*NNW 1/4 - 1/2 (0.331 mi.)*	*386*	*1224*

State and tribal leaking storage tank lists

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 11/19/2012 has revealed that there are 81 NY LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEL. SPILL /W.28ST.&10AV Date Closed: 12/4/1986	*W.26ST&10 AVE.*	*NNE 0 - 1/8 (0.104 mi.)*	*M117*	*369*
ELLIOT HOUSES -NYCHA Date Closed: 2/6/2006	*426 WEST 27TH ST*	*ENE 1/8 - 1/4 (0.133 mi.)*	*167*	*521*

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
505 W 27THST/CENTRAL IRON Date Closed: 12/15/2003	***505 W 27TH ST***	***NNE 1/8 - 1/4 (0.143 mi.)***	***AB173***	***552***
MINICK HOME Date Closed: 3/10/2006	440 WEST 22ND STREET	SSE 1/8 - 1/4 (0.158 mi.)	AF201	648
303 10TH AVE Date Closed: 12/5/1986 Date Closed: 2/5/1987	***303 10TH AVE***	***NNE 1/8 - 1/4 (0.162 mi.)***	***AL218***	***679***
400 WEST 25TH STREET Date Closed: 11/17/1993	***400 WEST 25TH STREET***	***ESE 1/8 - 1/4 (0.181 mi.)***	***AN260***	***826***
PARKING LOT OF Date Closed: 12/7/1998	***515 WEST 28TH ST***	***NNE 1/8 - 1/4 (0.194 mi.)***	***AX280***	***884***
DR. SERSINI Date Closed: 12/2/1994	***415 WEST 21ST STREET***	***SSE 1/8 - 1/4 (0.220 mi.)***	***BD327***	***1031***
415 W. 21ST STREET Date Closed: 12/14/1994	***415 W. 21ST STREET***	***SSE 1/8 - 1/4 (0.220 mi.)***	***BD328***	***1034***
PS 33 Date Closed: 3/3/2003 Date Closed: 12/31/1997	***281 9TH AVE***	***E 1/8 - 1/4 (0.221 mi.)***	***BH332***	***1047***
CLOSED-LACKOF RECENT INFO Date Closed: 3/4/2003	***524 WEST 29TH STREET***	***NNE 1/8 - 1/4 (0.244 mi.)***	***BM357***	***1112***
303 9TH AV/DEPT OF HEALTH Date Closed: 3/5/2003	***303 9TH AVENUE***	***ENE 1/4 - 1/2 (0.263 mi.)***	***369***	***1169***
166-35 9TH AVE/ Date Closed: 9/30/1992	***166-35 9TH AVENUE***	***SSE 1/4 - 1/2 (0.270 mi.)***	***370***	***1172***
HELIPORT W 30TH ST/MANH	***HELIPORT/WEST 30TH STRE***	***NE 1/4 - 1/2 (0.292 mi.)***	***373***	***1177***
Not reported Date Closed: 10/26/2005 Date Closed: 9/2/2003	***550 WEST 30TH STREET***	***N 1/4 - 1/2 (0.304 mi.)***	***377***	***1185***
STUART DEAN COMPANY Date Closed: 5/31/2006	366 10TH AV	NE 1/4 - 1/2 (0.305 mi.)	380	1195
POWER HOUSE Date Closed: 3/6/2003	***315 W 25TH ST***	***ESE 1/4 - 1/2 (0.328 mi.)***	***BR383***	***1200***
MUTUAL REDEVELOPMENT HOUSES, I Date Closed: 9/16/2005	***315 WEST 25TH STREET***	***ESE 1/4 - 1/2 (0.328 mi.)***	***BR384***	***1202***
APT. BUILDING Date Closed: 10/11/2007	312 WEST 23RD ST	SE 1/4 - 1/2 (0.341 mi.)	388	1264
FREEDMAN CUTOUTS Date Closed: 12/21/2000	***444 WEST 17TH STREET***	***SSW 1/4 - 1/2 (0.349 mi.)***	***BS390***	***1269***
Not reported Date Closed: 7/18/2001	***304 8TH AV***	***ESE 1/4 - 1/2 (0.356 mi.)***	***BT393***	***1284***
SCHOOL OF HUMANITES Date Closed: 3/15/2001	***18TH-19TH***	***S 1/4 - 1/2 (0.361 mi.)***	***394***	***1288***
APARTMENT BUILDING Date Closed: 11/22/1996	***347 WEST 29TH ST***	***ENE 1/4 - 1/2 (0.361 mi.)***	***395***	***1290***
REM RESIDENTIAL APARTMENTS Date Closed: 10/31/2011	***364 WEST 18TH ST***	***S 1/4 - 1/2 (0.385 mi.)***	***397***	***1296***
UPSCALE DEVELOPMENT Date Closed: 12/31/1997	***349 WEST 30TH ST 1ST FL***	***ENE 1/4 - 1/2 (0.385 mi.)***	***398***	***1300***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NY CLEARINGHOUSE	450 W33RD ST	NE 1/4 - 1/2 (0.388 mi.)	399	1303
UNKNOWN APARTMNT BUILDING	***204 8 AV***	***SSE 1/4 - 1/2 (0.397 mi.)***	***400***	***1304***
Date Closed: 9/15/1997				
APRT BUILDING -TTF	315-325 WEST 30TH STREE	ENE 1/4 - 1/2 (0.420 mi.)	BU402	1313
Date Closed: 10/25/2005				
255 W. 23RD ST	255 W. 23RD ST	SE 1/4 - 1/2 (0.430 mi.)	BW405	1320
Date Closed: 6/20/2003				
255 WEST 23RD ST	***255 WEST 23RD ST***	***SE 1/4 - 1/2 (0.430 mi.)***	***BW406***	***1321***
Date Closed: 6/21/2007				
304 W 30TH ST	***304 W 30TH ST***	***ENE 1/4 - 1/2 (0.434 mi.)***	***BU407***	***1324***
Date Closed: 12/21/1991				
310 WEST 18TH STREET	***310 WEST 18TH STREET***	***SSE 1/4 - 1/2 (0.447 mi.)***	***BX410***	***1334***
Date Closed: 2/9/2000				
308 WEST 18TH ST	***308 WEST 18TH ST***	***SSE 1/4 - 1/2 (0.450 mi.)***	***BX412***	***1341***
Date Closed: 12/8/1995				
HAG REALITY	***250 WEST 26TH ST***	***ESE 1/4 - 1/2 (0.452 mi.)***	***413***	***1343***
Date Closed: 5/20/2004				
400 8TH AVE	***400 8TH AVE***	***E 1/4 - 1/2 (0.452 mi.)***	***BY414***	***1346***
Date Closed: 11/23/1994				
425 WEST 33RD ST	***425 WEST 33RD ST***	***NE 1/4 - 1/2 (0.456 mi.)***	***415***	***1351***
Date Closed: 10/11/1996				
Date Closed: 9/11/2006				
AMOCO	436 TENTH AVE	E 1/4 - 1/2 (0.459 mi.)	BY416	1355
Date Closed: 5/3/2002				
AMOCO	436 TENTH AVE	E 1/4 - 1/2 (0.459 mi.)	BY418	1358
Date Closed: 8/27/1999				
226 WEST 26TH STREET	***226 WEST 26TH STREET***	***ESE 1/4 - 1/2 (0.481 mi.)***	***420***	***1368***
Date Closed: 11/16/1995				
APARTMENT HOUSE	***264 W. 19TH ST***	***SSE 1/4 - 1/2 (0.482 mi.)***	***421***	***1376***
Date Closed: 3/26/2003				
34TH ST. & 10TH AVE./AMOC	***34TH ST. & 10TH AVE.***	***NNE 1/4 - 1/2 (0.485 mi.)***	***CA425***	***1386***
Date Closed: 10/5/1987				
34TH ST. AND 10TH AVE./AM	***34TH ST.& 10TH AVE.***	***NNE 1/4 - 1/2 (0.485 mi.)***	***CA426***	***1389***
Date Closed: 9/1/1987				
528 W 34TH ST	***528 W 34TH ST***	***NNE 1/4 - 1/2 (0.492 mi.)***	***CB427***	***1392***
Date Closed: 4/16/1993				
530 WEST 34TH ST/MANH	***530 WEST 34TH STREET***	***NNE 1/4 - 1/2 (0.494 mi.)***	***CB428***	***1394***
Date Closed: 2/2/1990				

Lower Elevation	Address	Direction / Distance	Map ID	Page
VACANT LOT	511 WEST 24TH STREET	WNW 0 - 1/8 (0.047 mi.)	C32	133
Date Closed: 3/16/2005				
COMMERICAL BUILDLING	521 WEST 23RD STREET	WSW 0 - 1/8 (0.061 mi.)	G55	183
Not reported	***537 -541 W. 24TH ST***	***W 0 - 1/8 (0.072 mi.)***	***G62***	***199***
Date Closed: 6/8/2007				
EDISON PARKING GARAGE	***527 WEST 23RD ST***	***WSW 0 - 1/8 (0.082 mi.)***	***G80***	***254***
Date Closed: 5/27/2004				

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
MENDON LEASING Date Closed: 2/22/2001 Date Closed: 12/3/1986 **Additional key fields are available in the Map Findings section*	***527 WEST 23RD STREET***	***WSW 0 - 1/8 (0.083 mi.)***	***G84***	***271***
555 WEST 23RD ST Date Closed: 4/7/2006	555 WEST 23RD ST	W 0 - 1/8 (0.116 mi.)	R136	431
Not reported Date Closed: 4/11/2003	543 - 545 WEST 25TH ST	NNW 0 - 1/8 (0.121 mi.)	150	463
U-HAUL CENTER CHELSEA Date Closed: 6/21/2000 Date Closed: 12/10/2002	***562 WEST 23RD STREET***	***W 1/8 - 1/4 (0.129 mi.)***	***X162***	***498***
193 10TH AVE Date Closed: 1/19/1993	***193 10TH AVE***	***SSW 1/8 - 1/4 (0.132 mi.)***	***Y165***	***516***
PENSKE TRUCK LEASING CO L P Date Closed: 1/21/1993	***536 W 26TH ST***	***NNW 1/8 - 1/4 (0.150 mi.)***	***AC192***	***607***
NEW YORK STATE DEC Date Closed: 12/17/1997	***507 W 21ST ST***	***SW 1/8 - 1/4 (0.162 mi.)***	***AG222***	***706***
201 11TH AVE/MANH/USPS Date Closed: 3/4/2003 Date Closed: 5/11/1990	***201 11TH AVENUE***	***WNW 1/8 - 1/4 (0.163 mi.)***	***AH231***	***745***
535 EAST 21ST STREET Date Closed: 2/25/1993	***535 EAST 21ST STREET***	***SW 1/8 - 1/4 (0.173 mi.)***	***AR249***	***805***
IN BASEMENT OF WAREHOUSE Date Closed: 10/16/1997	***601 WEST 26TH ST***	***NW 1/8 - 1/4 (0.210 mi.)***	***BE300***	***924***
601 W. 26TH ST Date Closed: 12/12/1994	***601 W. 26TH ST***	***NW 1/8 - 1/4 (0.210 mi.)***	***BE306***	***986***
COMMERCIAL BUILDING Date Closed: 6/27/2005	260 11TH AVE	NNW 1/8 - 1/4 (0.213 mi.)	BF314	1002
152-156 TENTH AVE/MANHATT Date Closed: 8/24/1989	***152-156 TENTH AVENUE***	***SSW 1/8 - 1/4 (0.228 mi.)***	***AZ338***	***1061***
271 11TH AVE Date Closed: 12/29/1988	***271 11TH AVE***	***NNW 1/8 - 1/4 (0.232 mi.)***	***BJ342***	***1066***
GETTY 58542 Date Closed: 3/10/2004	***152 TENTH AVE***	***SSW 1/8 - 1/4 (0.232 mi.)***	***BK344***	***1071***
NYC DEPT OF SANITATION Date Closed: 5/22/2009	640 WEST 26TH ST	NW 1/4 - 1/2 (0.254 mi.)	364	1152
MENDON Date Closed: 12/23/2004	***542 WEST 19TH STREET***	***SW 1/4 - 1/2 (0.256 mi.)***	***BN368***	***1166***
MENDON LEASING CORP. Date Closed: 3/18/2009	***515 WEST 18TH STREET***	***SSW 1/4 - 1/2 (0.274 mi.)***	***BO372***	***1175***
AUTO CARE WEST Date Closed: 1/26/2000	464 WEST 18TH ST	SSW 1/4 - 1/2 (0.299 mi.)	BP375	1181
168-11 12TH AVENUE Date Closed: 9/30/1992	***168-11 12TH AVENUE***	***NW 1/4 - 1/2 (0.337 mi.)***	***387***	***1262***
555 WEST 17TH ST/MANH Date Closed: 9/19/1990	***555 WEST 17TH STREET***	***SW 1/4 - 1/2 (0.348 mi.)***	***389***	***1266***
D26TH ST. & HUDSON PKWY. Date Closed: 3/31/1995	***26TH ST. & HUDSON PKWY.***	***NNW 1/4 - 1/2 (0.372 mi.)***	***396***	***1293***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
19 11TH AVE/NYCTA-HUDSON	***19 11TH AVE***	***SW 1/4 - 1/2 (0.413 mi.)***	***401***	***1308***
W 30TH HELIPORT/MANHATTAN	***W 30TH STREET HELIPORT***	***NNW 1/4 - 1/2 (0.422 mi.)***	***BV403***	***1314***
Date Closed: 12/30/2003				
30TH ST HELIPORT/MANH	***30TH STREET HELIPORT***	***NNW 1/4 - 1/2 (0.422 mi.)***	***BV404***	***1317***
Date Closed: 11/12/1992				
CHELSEA CAR WASH	450 W 15TH ST	SSW 1/4 - 1/2 (0.442 mi.)	408	1327
Date Closed: 5/17/2006				
HUDSON PIER DEPOT	***WEST 15TH ST & 11TH AVE***	***SW 1/4 - 1/2 (0.444 mi.)***	***409***	***1329***
Date Closed: 3/24/1989				
11 ELEVENTH AVENUE	***11 ELEVENTH AVENUE***	***SSW 1/4 - 1/2 (0.448 mi.)***	***411***	***1338***
Date Closed: 12/17/1996				
GREYHOUND GARAGE	***260 12TH AVE***	***NNW 1/4 - 1/2 (0.473 mi.)***	***419***	***1359***
Date Closed: 1/23/2004				
Date Closed: 5/11/2004				
PIER 57- 11TH AVENUE	***PIER 57 / 11TH AVENUE***	***SW 1/4 - 1/2 (0.484 mi.)***	***BZ422***	***1378***
Date Closed: 12/27/2000				
PIER 57- WESTSIDE HIGHWAY	***PIER 57 / 17TH ST***	***SW 1/4 - 1/2 (0.484 mi.)***	***BZ423***	***1381***
Date Closed: 12/9/1994				
PIER 57 & HUDSON DEPOT	***15TH ST & ROUTE 9A***	***SW 1/4 - 1/2 (0.484 mi.)***	***BZ424***	***1383***
Date Closed: 5/7/1998				
501 W 14TH ST/SUNOCO	***501 W 14TH ST***	***SSW 1/4 - 1/2 (0.495 mi.)***	***429***	***1397***
Date Closed: 5/22/2006				

NY HIST LTANKS: A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database.

A review of the NY HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 72 NY HIST LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUDSON RIVER PCBS	***NO STREET APPLICABLE***	***W 1/4 - 1/2 (0.347 mi.)***	***0***	***37***
Date Closed: 02/18/88				
DEL. SPILL /W.28ST.&10AV	***W.26ST&10 AVE.***	***NNE 0 - 1/8 (0.104 mi.)***	***M117***	***369***
Date Closed: 12/04/86				
505 W 27THST/CENTRAL IRON	***505 W 27TH ST***	***NNE 1/8 - 1/4 (0.143 mi.)***	***AB173***	***552***
Date Closed: / /				
530 WEST 27TH ST/MANH	***530 WEST 27TH STREET***	***N 1/8 - 1/4 (0.152 mi.)***	***AI195***	***636***
Date Closed: / /				
303 10 AVE. MANHATTAN/UNK	303 10 AVE.	NNE 1/8 - 1/4 (0.162 mi.)	AL216	677
Date Closed: 12/05/86				
303 10TH AVE	***303 10TH AVE***	***NNE 1/8 - 1/4 (0.162 mi.)***	***AL218***	***679***
Date Closed: 02/05/87				
400 WEST 25TH STREET	***400 WEST 25TH STREET***	***ESE 1/8 - 1/4 (0.181 mi.)***	***AN260***	***826***
Date Closed: 11/17/93				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PARKING LOT OF Date Closed: / /	***515 WEST 28TH ST***	***NNE 1/8 - 1/4 (0.194 mi.)***	***AX280***	***884***
ELLIOTT HOUSES Date Closed: / /	***426 WEST 27TH ST***	***ENE 1/8 - 1/4 (0.199 mi.)***	***283***	***893***
DR. SERSINI Date Closed: 12/02/94	***415 WEST 21ST STREET***	***SSE 1/8 - 1/4 (0.220 mi.)***	***BD327***	***1031***
415 W. 21ST STREET Date Closed: 12/14/94	***415 W. 21ST STREET***	***SSE 1/8 - 1/4 (0.220 mi.)***	***BD328***	***1034***
PS 33 Date Closed: / /	***281 9TH AVE***	***E 1/8 - 1/4 (0.221 mi.)***	***BH332***	***1047***
PUBLIC SCHOOL #33 Date Closed: 12/31/97	281 9TH AVENUE	E 1/8 - 1/4 (0.221 mi.)	BH333	1052
CLOSED-LACKOF RECENT INFO Date Closed: / /	***524 WEST 29TH STREET***	***NNE 1/8 - 1/4 (0.244 mi.)***	***BM357***	***1112***
303 9TH AV/DEPT OF HEALTH Date Closed: / /	***303 9TH AVENUE***	***ENE 1/4 - 1/2 (0.263 mi.)***	***369***	***1169***
166-35 9TH AVE/ Date Closed: 09/30/92	***166-35 9TH AVENUE***	***SSE 1/4 - 1/2 (0.270 mi.)***	***370***	***1172***
HELIPORT W 30TH ST/MANH Date Closed: / /	***HELIPORT/WEST 30TH STRE***	***NE 1/4 - 1/2 (0.292 mi.)***	***373***	***1177***
AUTO CARE WEST Date Closed: 01/26/00	458-460 WEST 18TH ST	SSW 1/4 - 1/2 (0.301 mi.)	BP376	1183
Not reported Date Closed: / /	***550 WEST 30TH STREET***	***N 1/4 - 1/2 (0.304 mi.)***	***377***	***1185***
POWER HOUSE Date Closed: / /	***315 W 25TH ST***	***ESE 1/4 - 1/2 (0.328 mi.)***	***BR383***	***1200***
MUTUAL REDEVELOPMENT HSNG Date Closed: / /	315 W 25 ST	ESE 1/4 - 1/2 (0.330 mi.)	BR385	1222
FREEDMAN CUTOUTS Date Closed: 12/21/00	***444 WEST 17TH STREET***	***SSW 1/4 - 1/2 (0.349 mi.)***	***BS390***	***1269***
Not reported Date Closed: 07/18/01	304 8TH AVE	ESE 1/4 - 1/2 (0.356 mi.)	BT392	1282
SCHOOL OF HUMANITES Date Closed: 03/15/01	***18TH-19TH***	***S 1/4 - 1/2 (0.361 mi.)***	***394***	***1288***
APARTMENT BUILDING Date Closed: / /	***347 WEST 29TH ST***	***ENE 1/4 - 1/2 (0.361 mi.)***	***395***	***1290***
UPSCALE DEVELOPMENT Date Closed: 12/31/97	***349 WEST 30TH ST 1ST FL***	***ENE 1/4 - 1/2 (0.385 mi.)***	***398***	***1300***
UNKNOWN APARTMNT BUILDING Date Closed: 09/15/97	***204 8 AV***	***SSE 1/4 - 1/2 (0.397 mi.)***	***400***	***1304***
304 W 30TH ST Date Closed: 12/21/91	***304 W 30TH ST***	***ENE 1/4 - 1/2 (0.434 mi.)***	***BU407***	***1324***
310 WEST 18TH STREET Date Closed: 02/09/00	***310 WEST 18TH STREET***	***SSE 1/4 - 1/2 (0.447 mi.)***	***BX410***	***1334***
308 WEST 18TH ST Date Closed: 12/08/95	***308 WEST 18TH ST***	***SSE 1/4 - 1/2 (0.450 mi.)***	***BX412***	***1341***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HAG REALITY Date Closed: / /	***250 WEST 26TH ST***	***ESE 1/4 - 1/2 (0.452 mi.)***	***413***	***1343***
400 8TH AVE Date Closed: 11/23/94	***400 8TH AVE***	***E 1/4 - 1/2 (0.452 mi.)***	***BY414***	***1346***
425 WEST 33RD ST Date Closed: 10/11/96	***425 WEST 33RD ST***	***NE 1/4 - 1/2 (0.456 mi.)***	***415***	***1351***
436 TENTH AVENUE Date Closed: / /	436 TENTH AVENUE	E 1/4 - 1/2 (0.459 mi.)	BY417	1356
226 WEST 26TH STREET Date Closed: 11/16/95 Date Closed: / /	***226 WEST 26TH STREET***	***ESE 1/4 - 1/2 (0.481 mi.)***	***420***	***1368***
34TH ST. & 10TH AVE./AMOC Date Closed: 10/05/87	***34TH ST. & 10TH AVE.***	***NNE 1/4 - 1/2 (0.485 mi.)***	***CA425***	***1386***
34TH ST. AND 10TH AVE./AM Date Closed: 09/01/87	***34TH ST.& 10TH AVE.***	***NNE 1/4 - 1/2 (0.485 mi.)***	***CA426***	***1389***
528 W 34TH ST Date Closed: 04/16/93	***528 W 34TH ST***	***NNE 1/4 - 1/2 (0.492 mi.)***	***CB427***	***1392***
530 WEST 34TH ST/MANH Date Closed: 02/02/90	***530 WEST 34TH STREET***	***NNE 1/4 - 1/2 (0.494 mi.)***	***CB428***	***1394***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MENDEN LEASING Date Closed: 02/22/01	523 W 23RD ST	WSW 0 - 1/8 (0.061 mi.)	G57	190
Not reported Date Closed: / /	***537 -541 W. 24TH ST***	***W 0 - 1/8 (0.072 mi.)***	***G62***	***199***
EDISON PARKING GARAGE Date Closed: / /	***527 WEST 23RD ST***	***WSW 0 - 1/8 (0.082 mi.)***	***G80***	***254***
MENDON LEASING Date Closed: 12/03/86	***527 WEST 23RD STREET***	***WSW 0 - 1/8 (0.083 mi.)***	***G84***	***271***
MENDON LEASING CORP Date Closed: / /	527 WEST 23RD STREET	WSW 0 - 1/8 (0.083 mi.)	G86	284
U-HAUL CENTER CHELSEA Date Closed: 06/21/00	***562 WEST 23RD STREET***	***W 1/8 - 1/4 (0.129 mi.)***	***X162***	***498***
193 10TH AVE Date Closed: 01/19/93	***193 10TH AVE***	***SSW 1/8 - 1/4 (0.132 mi.)***	***Y165***	***516***
536 WEST 26TH STREET Date Closed: 01/21/93	536 WEST 26TH STREET	NNW 1/8 - 1/4 (0.146 mi.)	AC180	566
PENSKE TRUCK LEASING CO L P Date Closed: / /	***536 W 26TH ST***	***NNW 1/8 - 1/4 (0.150 mi.)***	***AC192***	***607***
507 WEST 21ST STREET Date Closed: 12/17/97	507 WEST 21ST STREET	SW 1/8 - 1/4 (0.162 mi.)	AG224	713
201 11TH AVE/MANH/USPS Date Closed: / / Date Closed: 05/11/90	***201 11TH AVENUE***	***WNW 1/8 - 1/4 (0.163 mi.)***	***AH231***	***745***
535 EAST 21ST STREET Date Closed: 02/25/93	***535 EAST 21ST STREET***	***SW 1/8 - 1/4 (0.173 mi.)***	***AR249***	***805***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
IN BASEMENT OF WAREHOUSE Date Closed: 10/16/97	*601 WEST 26TH ST*	*NW 1/8 - 1/4 (0.210 mi.)*	*BE300*	*924*
601 W. 26TH ST Date Closed: 12/12/94	*601 W. 26TH ST*	*NW 1/8 - 1/4 (0.210 mi.)*	*BE306*	*986*
152-156 TENTH AVE/MANHATT Date Closed: 08/24/89	*152-156 TENTH AVENUE*	*SSW 1/8 - 1/4 (0.228 mi.)*	*AZ338*	*1061*
271 11TH AVE Date Closed: 12/29/88	*271 11TH AVE*	*NNW 1/8 - 1/4 (0.232 mi.)*	*BJ342*	*1066*
GETTY 58542 Date Closed: / /	*152 TENTH AVE*	*SSW 1/8 - 1/4 (0.232 mi.)*	*BK344*	*1071*
501-513 W. 19TH STREET Date Closed: / /	*513 W. 19TH STREET*	*SW 1/4 - 1/2 (0.254 mi.)*	*BN365*	*1154*
MENDON Date Closed: 11/14/91	*542 WEST 19TH STREET*	*SW 1/4 - 1/2 (0.256 mi.)*	*BN368*	*1166*
MENDON LEASING CORP. Date Closed: / /	*515 WEST 18TH STREET*	*SSW 1/4 - 1/2 (0.274 mi.)*	*BO372*	*1175*
168-11 12TH AVENUE Date Closed: 09/30/92	*168-11 12TH AVENUE*	*NW 1/4 - 1/2 (0.337 mi.)*	*387*	*1262*
555 WEST 17TH ST/MANH Date Closed: 09/19/90	*555 WEST 17TH STREET*	*SW 1/4 - 1/2 (0.348 mi.)*	*389*	*1266*
D26TH ST. & HUDSON PKWY. Date Closed: 03/31/95	*26TH ST. & HUDSON PKWY.*	*NNW 1/4 - 1/2 (0.372 mi.)*	*396*	*1293*
19 11TH AVE/NYCTA-HUDSON Date Closed: / /	*19 11TH AVE*	*SW 1/4 - 1/2 (0.413 mi.)*	*401*	*1308*
W 30TH HELIPORT/MANHATTAN Date Closed: / /	*W 30TH STREET HELIPORT*	*NNW 1/4 - 1/2 (0.422 mi.)*	*BV403*	*1314*
30TH ST HELIPORT/MANH Date Closed: 11/12/92	*30TH STREET HELIPORT*	*NNW 1/4 - 1/2 (0.422 mi.)*	*BV404*	*1317*
HUDSON PIER DEPOT Date Closed: 03/24/89	*WEST 15TH ST & 11TH AVE*	*SW 1/4 - 1/2 (0.444 mi.)*	*409*	*1329*
11 ELEVENTH AVENUE Date Closed: 12/17/96	*11 ELEVENTH AVENUE*	*SSW 1/4 - 1/2 (0.448 mi.)*	*411*	*1338*
GREYHOUND GARAGE Date Closed: / /	*260 12TH AVE*	*NNW 1/4 - 1/2 (0.473 mi.)*	*419*	*1359*
PIER 57- 11TH AVENUE Date Closed: 12/27/00	*PIER 57 / 11TH AVENUE*	*SW 1/4 - 1/2 (0.484 mi.)*	*BZ422*	*1378*
PIER 57- WESTSIDE HIGHWAY Date Closed: 12/09/94	*PIER 57 / 17TH ST*	*SW 1/4 - 1/2 (0.484 mi.)*	*BZ423*	*1381*
PIER 57 & HUDSON DEPOT Date Closed: 05/07/98	*15TH ST & ROUTE 9A*	*SW 1/4 - 1/2 (0.484 mi.)*	*BZ424*	*1383*
501 W 14TH ST/SUNOCO Date Closed: / /	*501 W 14TH ST*	*SSW 1/4 - 1/2 (0.495 mi.)*	*429*	*1397*

State and tribal registered storage tank lists

NY TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the NY TANKS list, as provided by EDR, and dated 01/02/2013 has revealed that there are 3 NY TANKS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EMPIRE CITY SUBWAY COMPANY LTD	***177-83 10TH AVENUE***	***SSW 1/8 - 1/4 (0.180 mi.)***	***AJ254***	***818***
WITEL COMMUNICATIONS, LLC	***601 WEST 26TH STREET***	***NW 1/8 - 1/4 (0.210 mi.)***	***BE303***	***953***
CONSOLIDATED EDISON	***281 11TH AVE***	***N 1/8 - 1/4 (0.249 mi.)***	***BJ363***	***1148***

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, and dated 01/02/2013 has revealed that there are 37 NY UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LONDON TERRACE TOWERS-470 W 24	***470 WEST 24TH ST***	***SSE 0 - 1/8 (0.010 mi.)***	***A12***	***71***
245-247 10TH AVE	245-247 TENTH AVENUE	ENE 0 - 1/8 (0.014 mi.)	A19	91
CHELSEA HOUSES	***431 WEST 25TH STREET***	***NE 0 - 1/8 (0.045 mi.)***	***B31***	***128***
GULF SERVICE STA	***500 W 23RD ST***	***SSW 0 - 1/8 (0.060 mi.)***	***F53***	***171***
AVENUES, THE WORLD SCHOOL	***259 10TH AVENUE***	***NNE 0 - 1/8 (0.072 mi.)***	***H65***	***211***
513 WEST 26TH ASSOCIATES	***533 WEST 26TH STREET***	***N 0 - 1/8 (0.104 mi.)***	***Q115***	***364***
LONDON TERRACE TOWERS OWNERS C	***420 WEST 24 STREET***	***ESE 1/8 - 1/4 (0.128 mi.)***	***S158***	***479***
HART REALTY	***520 WEST 27TH STREET***	***N 1/8 - 1/4 (0.148 mi.)***	***AE183***	***568***
536 WEST 27TH STREET	***536 WEST 27TH STREET***	***N 1/8 - 1/4 (0.156 mi.)***	***AI200***	***645***
537-545 W 27TH ST	537-545 W 27TH ST	N 1/8 - 1/4 (0.159 mi.)	AI204	655
SHLOMI & AVI REPAIR INC.	***303-309 10TH AVENUE***	***NNE 1/8 - 1/4 (0.162 mi.)***	***AL214***	***667***
TENTH GAS (NY) INC.	***303 TENTH AVENUE***	***NNE 1/8 - 1/4 (0.162 mi.)***	***AL215***	***670***
LONDON TERRACE TOWERS	410 WEST 24 STREET	SE 1/8 - 1/4 (0.163 mi.)	AD227	735
LONDON TERRACE GARDENS	***415-55 WEST 23RD STREET***	***SE 1/8 - 1/4 (0.163 mi.)***	***AM229***	***738***
ELLIOTT HOUSES (CHELSEA HOUSES	426 WEST 27TH STREET	ENE 1/8 - 1/4 (0.173 mi.)	AQ248	802
SEAN KELLY GALLERY/BLUMARTS, I	***524-532 WEST 29TH STREE***	***NNE 1/8 - 1/4 (0.244 mi.)***	***BM356***	***1106***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ADOLPHS TRUCKING CO, INC	***507-11 WEST 24TH ST***	***WNW 0 - 1/8 (0.039 mi.)***	***C27***	***108***
ARTISTS' CONDOMINIUM	***521 WEST 23RD STREET***	***WSW 0 - 1/8 (0.061 mi.)***	***G56***	***186***
EXXON 3-2253	***215 10TH AVE***	***SSW 0 - 1/8 (0.075 mi.)***	***F69***	***222***
COSTCO WHOLESALE CORPORATION	***527 WEST 23RD STREET***	***WSW 0 - 1/8 (0.083 mi.)***	***G83***	***259***
534-548 WEST 25TH STREET	***534-548 WEST 25TH STREE***	***NNW 0 - 1/8 (0.084 mi.)***	***I90***	***294***
CHELSEA ARTS TOWER CONDOMINIUM	543-545 WEST 25TH STREE	NW 0 - 1/8 (0.092 mi.)	N96	313
DHL WORLDWIDE EXPRESS	***560 W 25TH ST (550 W 25***	***NW 0 - 1/8 (0.122 mi.)***	***152***	***466***
UHAUL CTR CHELSEA 803062	***562 WEST 23RD STREET***	***W 1/8 - 1/4 (0.129 mi.)***	***X160***	***488***
GUARDIAN ANGEL	193 10TH AVENUE	SSW 1/8 - 1/4 (0.132 mi.)	Y164	514
DIA ART FOUNDATION	***548 W 22ND ST***	***WSW 1/8 - 1/4 (0.138 mi.)***	***169***	***528***
TIME WARNER CABLE OFFICES	511 WEST 21ST STREET	SW 1/8 - 1/4 (0.149 mi.)	AG188	577
PENSKE TRUCK LEASING CO., L.P.	536 WEST 26TH STREET	NNW 1/8 - 1/4 (0.150 mi.)	AC191	603
DYNAMIC DELIVERY CORP.	***202-208 11TH AVENUE***	***WNW 1/8 - 1/4 (0.151 mi.)***	***AH193***	***625***
THE HENRY LLOYD COMPANY	***507 WEST 21ST STREET***	***SW 1/8 - 1/4 (0.162 mi.)***	***AG221***	***689***
STORAGE USA	***510 WEST 21ST STREET***	***SW 1/8 - 1/4 (0.165 mi.)***	***AG238***	***769***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHELSEA OPERATING, INC.	***521 WEST 21ST STREET***	***SW 1/8 - 1/4 (0.166 mi.)***	***AG242***	***778***
JHT LEASING CORP	***603 WEST 23RD ST***	***W 1/8 - 1/4 (0.175 mi.)***	***AK250***	***808***
BERMUDA MOTOR CAR RENTING CO	***537 WEST 20TH STREET***	***SW 1/8 - 1/4 (0.214 mi.)***	***BG320***	***1013***
BAYVIEW CORRECTIONAL FACILITY	***550 WEST 20TH ST***	***SW 1/8 - 1/4 (0.221 mi.)***	***BG329***	***1036***
GETTY 58542	***152 TENTH AVE***	***SSW 1/8 - 1/4 (0.232 mi.)***	***BK344***	***1071***
AVALON WEST CHELSEA LLC	***282-298 ELEVENTH AVENUE***	***N 1/8 - 1/4 (0.248 mi.)***	***BJ359***	***1121***

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, and dated 01/02/2013 has revealed that there are 48 NY AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LONDON TERRACE TOWERS-470 W 24	***470 WEST 24TH ST***	***SSE 0 - 1/8 (0.010 mi.)***	***A12***	***71***
511 WEST 25TH STREET	***511 WEST 25TH STREET***	***NNW 0 - 1/8 (0.060 mi.)***	***D51***	***166***
AVENUES, THE WORLD SCHOOL	***259 10TH AVENUE***	***NNE 0 - 1/8 (0.072 mi.)***	***H65***	***211***
BEAR AUTOMOTIVE & TIRE CENTER,	279 10TH AVENUE	NE 0 - 1/8 (0.093 mi.)	M100	324
525 W 26 ST	***525 W 26 ST***	***N 0 - 1/8 (0.104 mi.)***	***Q114***	***359***
WOLFE BUILDING	***508 WEST 26TH STREET***	***N 0 - 1/8 (0.105 mi.)***	***Q123***	***395***
LONDON TERRACE TOWERS OWNERS C	***420 WEST 24 STREET***	***ESE 1/8 - 1/4 (0.128 mi.)***	***S158***	***479***
LONDON TERRACE GARDENS	435 WEST 23RD STREET	SE 1/8 - 1/4 (0.133 mi.)	Z166	519
M.J. CAHN CO., INC.	510 WEST 27TH ST	NNE 1/8 - 1/4 (0.144 mi.)	AB176	559
SILVERBOW REALTY CO	***415 WEST 24TH ST***	***ESE 1/8 - 1/4 (0.145 mi.)***	***AD177***	***561***
TENTH AVENUE PARTNERS, L.P.	299/301 TENTH AVE	NNE 1/8 - 1/4 (0.148 mi.)	AB186	574
LONDON TERRACE TOWERS	***410 WEST 24 STREET***	***SE 1/8 - 1/4 (0.163 mi.)***	***AD226***	***730***
NEW ERA H.D.F.C.	408 WEST 25TH STREET	ESE 1/8 - 1/4 (0.164 mi.)	AN233	751
ELLIOTT HOUSES (CHELSEA HOUSES	426 WEST 27TH STREET	ENE 1/8 - 1/4 (0.173 mi.)	AQ246	798
GOLDEN EQUITIES CORP.	401 WEST 24TH STREET	ESE 1/8 - 1/4 (0.176 mi.)	AS251	812
433 W. 21 STREET	433 WEST 21ST STREET	S 1/8 - 1/4 (0.180 mi.)	257	821
400 WEST 25TH STREET	***400 WEST 25TH STREET***	***ESE 1/8 - 1/4 (0.181 mi.)***	***AN260***	***826***
W 23RD ST OWNERS CORP	***400-410 W 23RD ST***	***SE 1/8 - 1/4 (0.185 mi.)***	***AM266***	***852***
263 9TH AVENUE REALTY	263 9TH AVENUE	E 1/8 - 1/4 (0.189 mi.)	AV274	875
PRADERA REALTY CO.	501 W 28 STREET	NNE 1/8 - 1/4 (0.193 mi.)	AX279	882
EVAN AUTO INC	319 TENTH AVENUE	NNE 1/8 - 1/4 (0.206 mi.)	AW288	910
BHL ASSOCIATES	***547 W 27TH ST AKA 262-2***	***N 1/8 - 1/4 (0.209 mi.)***	***BB296***	***917***
421 WEST 21ST STREET	***421 WEST 21ST STREET***	***SSE 1/8 - 1/4 (0.210 mi.)***	***BD298***	***921***
458 WEST 20TH ST	***458 WEST 20TH ST***	***SSW 1/8 - 1/4 (0.214 mi.)***	***319***	***1009***
PUBLIC SCHOOL 33 - MANHATTAN (	281 NINTH AVENUE	E 1/8 - 1/4 (0.219 mi.)	BH324	1026
THE GENERAL THEOLOGICAL SEMINA	422 WEST 20TH STREET	S 1/8 - 1/4 (0.234 mi.)	347	1091
501 WEST 29TH STREET	***501 WEST 29TH STREET***	***NNE 1/8 - 1/4 (0.239 mi.)***	***BL352***	***1095***
SAM-FAY REALTY CORP.	515 WEST 29TH STREET	NNE 1/8 - 1/4 (0.243 mi.)	BM355	1101

Lower Elevation	Address	Direction / Distance	Map ID	Page
531 WEST 25TH STREET	***531 WEST 25TH STREET***	***NNW 0 - 1/8 (0.074 mi.)***	***I67***	***217***
MARAIS	520 WEST 23RD STREET	WSW 0 - 1/8 (0.079 mi.)	G76	243
THE TATE	535 WEST 23RD STREET	W 0 - 1/8 (0.080 mi.)	G78	246
555 WEST 25 ST	555 WEST 25TH STREET	NW 0 - 1/8 (0.108 mi.)	N127	408
UHAUL CTR CHELSEA 803062	***562 WEST 23RD STREET***	***W 1/8 - 1/4 (0.129 mi.)***	***X160***	***488***
M.G. TOTAL CAR CARE INC.	545 WEST 26TH STREET	NNW 1/8 - 1/4 (0.137 mi.)	W168	526
DIA ART FOUNDATION	***548 W 22ND ST***	***WSW 1/8 - 1/4 (0.138 mi.)***	***169***	***528***
TIME WARNER CABLE	***511 WEST 21ST ST***	***SW 1/8 - 1/4 (0.149 mi.)***	***AG189***	***580***
PENSKE TRUCK LEASING CO., L.P.	***536 WEST 26TH STREET***	***NNW 1/8 - 1/4 (0.150 mi.)***	***AC190***	***595***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ABIS AUTO REPAIR, INC.	196 ELEVENTH AVENUE	WNW 1/8 - 1/4 (0.156 mi.)	AH199	643
210 11TH AVE	210 ELEVENTH AVENUE	NW 1/8 - 1/4 (0.158 mi.)	AH202	649
CHELSEA INN, INC.	184 11TH AVENUE	WNW 1/8 - 1/4 (0.163 mi.)	AK230	743
7 LINE SUBWAY CONSTRUCTION SIT	550 WEST 26TH STREET	NNW 1/8 - 1/4 (0.172 mi.)	AP245	795
BALWARK BUILDING	***239 11TH AVE***	***NW 1/8 - 1/4 (0.181 mi.)***	***AP259***	***825***
KDMJ REALTY	556 W 22ND STREET / 160	W 1/8 - 1/4 (0.187 mi.)	AU271	858
STARRETT-LEHIGH BLDG	601 WEST 26TH STREET	NW 1/8 - 1/4 (0.210 mi.)	BE304	957
260 11TH AVENUE	260 ELEVENTH AVENUE	NNW 1/8 - 1/4 (0.212 mi.)	BF309	991
BAYVIEW CORRECTIONAL FACILITY	***550 WEST 20TH ST***	***SW 1/8 - 1/4 (0.221 mi.)***	***BG329***	***1036***
MANHATTAN MOTORCARS	270 ELEVENTH AVE	NNW 1/8 - 1/4 (0.227 mi.)	BF337	1058
SYLVOR COMPANY	120-126 11TH AVENUE	WSW 1/8 - 1/4 (0.241 mi.)	353	1098

NY CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the NY CBS list, as provided by EDR, and dated 01/02/2013 has revealed that there is 1 NY CBS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCT-PARKING LOT	***220 11TH AVENUE***	***NW 1/8 - 1/4 (0.166 mi.)***	***AO241***	***773***

State and tribal institutional control / engineering control registries

NY ENG CONTROLS: Environmental Remediation sites that have engineering controls in place.

A review of the NY ENG CONTROLS list, as provided by EDR, and dated 11/19/2012 has revealed that there are 2 NY ENG CONTROLS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WEST 17TH STREET AND 10TH AVEN	***440-452 WEST 17TH ST.,***	***SSW 1/4 - 1/2 (0.352 mi.)***	***BS391***	***1271***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
19TH STREET DEVELOPMENT SITE	***80 11TH AVENUE***	***SW 1/4 - 1/2 (0.304 mi.)***	***BQ378***	***1189***

Environmental Remediation sites that have institutional controls in place.

A review of the NY INST CONTROL list, as provided by EDR, and dated 11/19/2012 has revealed that there are 2 NY INST CONTROL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WEST 17TH STREET AND 10TH AVEN	***440-452 WEST 17TH ST.,***	***SSW 1/4 - 1/2 (0.352 mi.)***	***BS391***	***1271***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
19TH STREET DEVELOPMENT SITE	***80 11TH AVENUE***	***SW 1/4 - 1/2 (0.304 mi.)***	***BQ378***	***1189***

EXECUTIVE SUMMARY

State and tribal voluntary cleanup sites

NY VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the NY VCP list, as provided by EDR, and dated 11/19/2012 has revealed that there is 1 NY VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CE - E. 19TH ST. STATION	524 E. 19TH ST.	SW 1/4 - 1/2 (0.256 mi.)	BN367	1164

State and tribal Brownfields sites

NY BROWNFIELDS: Brownfields Site List

A review of the NY BROWNFIELDS list, as provided by EDR, and dated 11/19/2012 has revealed that there are 3 NY BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WEST 17TH STREET AND 10TH AVEN	***440-452 WEST 17TH ST.,***	***SSW 1/4 - 1/2 (0.352 mi.)***	***BS391***	***1271***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
19TH STREET DEVELOPMENT SITE	***80 11TH AVENUE***	***SW 1/4 - 1/2 (0.304 mi.)***	***BQ378***	***1189***
17TH STREET DEVELOPMENT PROJEC	76 11TH AVENUE	SW 1/4 - 1/2 (0.311 mi.)	BQ381	1197

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

NY HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 40 NY HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LONDON TERRACE TOWERS	470 WEST 24 STREET	SSE 0 - 1/8 (0.010 mi.)	A13	81
CHELSEA HOUSES	***431 WEST 25TH STREET***	***NE 0 - 1/8 (0.045 mi.)***	***B31***	***128***
511 WEST 25TH STREET	511 W 25TH ST	NNW 0 - 1/8 (0.060 mi.)	D52	169
GULF SERVICE STA	***500 W 23RD ST***	***SSW 0 - 1/8 (0.060 mi.)***	***F53***	***171***
513 WEST 26TH ASSOCIATES	***533 WEST 26TH STREET***	***N 0 - 1/8 (0.104 mi.)***	***Q115***	***364***
LONDON TERRACE TOWERS OWNERS C	***420 WEST 24 STREET***	***ESE 1/8 - 1/4 (0.128 mi.)***	***S158***	***479***
418 W.25TH ST	***418 W.25TH ST***	***ESE 1/8 - 1/4 (0.143 mi.)***	***AA174***	***555***
HART REALTY	***520 WEST 27TH STREET***	***N 1/8 - 1/4 (0.148 mi.)***	***AE183***	***568***
536 WEST 27TH STREET	***536 WEST 27TH STREET***	***N 1/8 - 1/4 (0.156 mi.)***	***AI200***	***645***
SHLOMI & AVI REPAIR INC.	***303-309 10TH AVENUE***	***NNE 1/8 - 1/4 (0.162 mi.)***	***AL214***	***667***
TENTH GAS (NY) INC.	***303 TENTH AVENUE***	***NNE 1/8 - 1/4 (0.162 mi.)***	***AL215***	***670***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LONDON TERRACE TOWERS	410 WEST 24 STREET	SE 1/8 - 1/4 (0.163 mi.)	AD226	730
LONDON TERRACE GARDENS	415-55 WEST 23RD STREET	SE 1/8 - 1/4 (0.163 mi.)	AM229	738
ELLIOTT HOUSES	426 WEST 27TH ST	ENE 1/8 - 1/4 (0.199 mi.)	283	893
PS 33	281 9TH AVE	E 1/8 - 1/4 (0.221 mi.)	BH332	1047
SEAN KELLY GALLERY/BLUMARTS, I	524-532 WEST 29TH STREE	NNE 1/8 - 1/4 (0.244 mi.)	BM356	1106

Lower Elevation	Address	Direction / Distance	Map ID	Page
ADOLPHS TRUCKING CO, INC	507-11 WEST 24TH ST	WNW 0 - 1/8 (0.039 mi.)	C27	108
ARTISTS' CONDOMINIUM	521 WEST 23RD STREET	WSW 0 - 1/8 (0.061 mi.)	G56	186
EXXON 3-2253	215 10TH AVE	SSW 0 - 1/8 (0.075 mi.)	F69	222
COSTCO WHOLESALE CORPORATION	527 WEST 23RD STREET	WSW 0 - 1/8 (0.083 mi.)	G83	259
534-548 WEST 25TH STREET	534-548 WEST 25TH STREE	NNW 0 - 1/8 (0.084 mi.)	I90	294
DHL WORLDWIDE EXPRESS	560 W 25TH ST (550 W 25	NW 0 - 1/8 (0.122 mi.)	152	466
UHAUL CTR CHELSEA 803062	562 WEST 23RD STREET	W 1/8 - 1/4 (0.129 mi.)	X160	488
DIA ART FOUNDATION	548 W 22ND ST	WSW 1/8 - 1/4 (0.138 mi.)	169	528
TIME WARNER CABLE	511 WEST 21ST ST	SW 1/8 - 1/4 (0.149 mi.)	AG189	580
PENSKE TRUCK LEASING CO., L.P.	536 WEST 26TH STREET	NNW 1/8 - 1/4 (0.150 mi.)	AC190	595
DYNAMIC DELIVERY CORP.	202-208 11TH AVENUE	WNW 1/8 - 1/4 (0.151 mi.)	AH193	625
210 ELEVENTH AVENUE	210 11TH AVENUE	NW 1/8 - 1/4 (0.158 mi.)	AH203	652
THE HENRY LLOYD COMPANY	507 WEST 21ST STREET	SW 1/8 - 1/4 (0.162 mi.)	AG221	689
STORAGE USA	510 WEST 21ST STREET	SW 1/8 - 1/4 (0.165 mi.)	AG238	769
CHELSEA OPERATING, INC.	521 WEST 21ST STREET	SW 1/8 - 1/4 (0.166 mi.)	AG242	778
JHT LEASING CORP	603 WEST 23RD ST	W 1/8 - 1/4 (0.175 mi.)	AK250	808
EMPIRE CITY SUBWAY COMPANY LTD	177-83 10TH AVENUE	SSW 1/8 - 1/4 (0.180 mi.)	AJ254	818
BALWARK BUILDING	239 11TH AVE	NW 1/8 - 1/4 (0.181 mi.)	AP259	825
EVERGREEN STUDIO	635 W 23RD ST	WNW 1/8 - 1/4 (0.191 mi.)	AT275	877
WITEL COMMUNICATIONS, LLC	601 WEST 26TH STREET	NW 1/8 - 1/4 (0.210 mi.)	BE303	953
BERMUDA MOTOR CAR RENTING CO	537 WEST 20TH STREET	SW 1/8 - 1/4 (0.214 mi.)	BG320	1013
BAYVIEW CORRECTIONAL	550 WEST 20TH STREET	SW 1/8 - 1/4 (0.221 mi.)	BG331	1043
GETTY 58542	152 TENTH AVE	SSW 1/8 - 1/4 (0.232 mi.)	BK344	1071
AVALON WEST CHELSEA LLC	282-298 ELEVENTH AVENUE	N 1/8 - 1/4 (0.248 mi.)	BJ359	1121

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 11/19/2012 has revealed that there are 46 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
470 WEST 24TH ST/MANH Date Closed: 5/25/1995	470 WEST 24TH STREET	SSE 0 - 1/8 (0.010 mi.)	A10	67
RESI: LOUDON TERRECE Date Closed: 12/26/2001	470 WEST 24TH ST	SSE 0 - 1/8 (0.010 mi.)	A11	69
246 10TH AVENUE Date Closed: 10/28/1994	246 10TH AVENUE	E 0 - 1/8 (0.011 mi.)	A14	82
COMMERCIAL FACILITY Date Closed: 11/2/2005	245 TENTH AVE	WSW 0 - 1/8 (0.016 mi.)	A20	93

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHELSEA HOUSES -NYCHA Date Closed: 7/21/1998	***425 WEST 25TH ST***	***NE 0 - 1/8 (0.045 mi.)***	***B30***	***126***
TRUCKING FACILITY Date Closed: 12/17/2003	510 WEST 25TH STREET	NNW 0 - 1/8 (0.057 mi.)	D39	147
Not reported Date Closed: 8/5/2002	23RD ST BET 8TH & 12TH	SSW 0 - 1/8 (0.059 mi.)	F41	149
MANHOLE 60721 Date Closed: 8/20/2003	W 23RD ST, WEST OF 10TH	SSW 0 - 1/8 (0.059 mi.)	F42	150
MANHOLE #61721 Date Closed: 4/29/2005	23RD ST/10TH AVE	SSW 0 - 1/8 (0.059 mi.)	F43	152
NYC TRANSIT BUS Date Closed: 10/10/2001	***10TH AVE & 23RD ST***	***SSW 0 - 1/8 (0.059 mi.)***	***F44***	***154***
TEN GALLONS OIL IN MANHOLE #61 Date Closed: 1/17/2007	WEST 23 STREET & 10 AVE	SSW 0 - 1/8 (0.059 mi.)	F45	156
MAN HOLE 16721 Date Closed: 7/29/2003	***WEST 23RD ST/10TH AV***	***SSW 0 - 1/8 (0.059 mi.)***	***F46***	***157***
MANHOLE 61721 Date Closed: 1/10/2008	W 23 ST / 10TH AV	SSW 0 - 1/8 (0.059 mi.)	F47	160
Not reported Date Closed: 6/3/2002	WEST 23RD ST & 10TH AV	SSW 0 - 1/8 (0.059 mi.)	F48	162
CON ED Date Closed: 2/10/2004	W 23RD ST/ E 10TH AVE	SSW 0 - 1/8 (0.059 mi.)	F49	163
MANHOLE #61721 Date Closed: 9/16/2009	WEST 23RD STREET AND WE	SSW 0 - 1/8 (0.059 mi.)	F50	165
EPGR REALTY LLC ***UNDERGROUND TANK*** Date Closed: 4/16/2012	449 WEST 24TH ST ***259 10TH AVE***	ESE 0 - 1/8 (0.069 mi.) ***NNE 0 - 1/8 (0.072 mi.)***	E61 ***H64***	197 ***208***
VAULT 4967 Date Closed: 1/13/2011	279 10TH AVE	NE 0 - 1/8 (0.092 mi.)	M94	310
216786; W 26 ST AND W 10 AV Date Closed: 5/18/2009	W 26 ST AND W 10 AV	NE 0 - 1/8 (0.092 mi.)	M95	312
AUTO SHOP Date Closed: 5/5/2006	279 10TH AVE	NE 0 - 1/8 (0.093 mi.)	M98	318
VAULT 4749 Date Closed: 5/21/2010	435 WEST 23RD ST	SE 0 - 1/8 (0.099 mi.)	P104	337
LUNDON TERRACE GARDEN APT Date Closed: 2/12/2003	***415 WEST 23RD ST***	***SE 0 - 1/8 (0.099 mi.)***	***P105***	***338***
440 WEST 24TH ST/MANHATTA Date Closed: 11/14/1994 Date Closed: 12/15/1994	***440 WEST 24TH STREET***	***SE 0 - 1/8 (0.099 mi.)***	***P106***	***341***
LONDON TERRACE GARDENS Date Closed: 8/14/1996	***450 WEST 24TH ST***	***SE 0 - 1/8 (0.099 mi.)***	***P107***	***344***
RESIDENCE Date Closed: 11/30/2005	458 WEST 23RD ST.	SSE 0 - 1/8 (0.099 mi.)	L108	347
GASOLINE CONTAMINATION Date Closed: 12/6/2004	513 WEST 26TH ST	N 0 - 1/8 (0.104 mi.)	Q116	367
UNDERGROUND TRANSFORMER	426 WEST 24 STREET	SE 0 - 1/8 (0.114 mi.)	S134	425

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported Date Closed: 2/13/2003	520 W 25TH ST	NNW 0 - 1/8 (0.066 mi.)	D59	193
CUMBERLAND FARMS Date Closed: 1/30/2007	215 10TH AVE	SSW 0 - 1/8 (0.075 mi.)	F68	220
215 EAST 10TH STREET Date Closed: 9/29/2003 Date Closed: 8/31/1987 *Additional key fields are available in the Map Findings section*	215 EAST 10TH STREET	SSW 0 - 1/8 (0.075 mi.)	F71	236
TRENCH Date Closed: 6/23/2003 Date Closed: 8/2/2011	535 WEST 23RD STREET	W 0 - 1/8 (0.080 mi.)	G79	248
MENDON LEASING Date Closed: 9/22/2008	***527 WEST 23RD STREET***	***WSW 0 - 1/8 (0.083 mi.)***	***G84***	***271***
Not reported Date Closed: 11/10/2000	***534-548 W 25TH ST***	***NNW 0 - 1/8 (0.083 mi.)***	***I87***	***286***
Not reported Date Closed: 11/10/2000	***534 W 25TH ST***	***NNW 0 - 1/8 (0.083 mi.)***	***I88***	***288***
WEST 24TH ST Date Closed: 5/20/1996	***BTW 10TH & 11TH AVENUE***	***WNW 0 - 1/8 (0.087 mi.)***	***K92***	***307***
CONSTRUCTION SITE - MISC Date Closed: 8/21/2007	545 WEST 25TH STREET	NNW 0 - 1/8 (0.096 mi.)	N102	333
543 TO 547 W. 23RD ST. Date Closed: 12/16/1986	***543-547 W. 23RD ST.***	***W 0 - 1/8 (0.105 mi.)***	***R124***	***401***
GRAPHIC PROPERTIES Date Closed: 9/1/1998	***555 WEST 25TH STREET***	***NW 0 - 1/8 (0.108 mi.)***	***N129***	***412***
MANHOLE 43095 Date Closed: 12/27/2004	WEST 22ND ST/10TH AV	SSW 0 - 1/8 (0.112 mi.)	O133	423
560 WEST 25TH ST/MANHATTA Date Closed: 9/30/1988	***560 WEST 25TH STREET***	***NW 0 - 1/8 (0.116 mi.)***	***N137***	***433***
MANHOLE 24185 Date Closed: 1/30/2004	***518 - 22 W 204 ST***	***SW 0 - 1/8 (0.116 mi.)***	***T138***	***435***
555 WEST 23RD ST Date Closed: 4/3/2006	***555 WEST 23RD ST***	***W 0 - 1/8 (0.117 mi.)***	***R140***	***444***
VACANT LOT Date Closed: 11/30/2004	559 WEST 23RD STREET	W 0 - 1/8 (0.121 mi.)	R149	462
537 W 26TH ST Date Closed: 2/5/2010	***537 W 26TH ST***	***NNW 0 - 1/8 (0.123 mi.)***	***W153***	***469***
COMMERICAL PROPERTY/ GAR Date Closed: 12/22/2011	552 WEST 24TH STREET	WNW 0 - 1/8 (0.123 mi.)	V154	471

EXECUTIVE SUMMARY

NY Hist Spills: This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database.

A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there are 25 NY Hist Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
470 WEST 24TH ST/MANH	***470 WEST 24TH STREET***	***SSE 0 - 1/8 (0.010 mi.)***	***A10***	***67***
RESI: LOUDON TERRECE	***470 WEST 24TH ST***	***SSE 0 - 1/8 (0.010 mi.)***	***A11***	***69***
246 10TH AVENUE	***246 10TH AVENUE***	***E 0 - 1/8 (0.011 mi.)***	***A14***	***82***
CHELSEA HOUSES	431 WEST 25TH ST	NE 0 - 1/8 (0.044 mi.)	B29	124
CHELSEA HOUSES -NYCHA	***425 WEST 25TH ST***	***NE 0 - 1/8 (0.045 mi.)***	***B30***	***126***
NYC TRANSIT BUS	***10TH AVE & 23RD ST***	***SSW 0 - 1/8 (0.059 mi.)***	***F44***	***154***
MAN HOLE 16721	***WEST 23RD ST/10TH AV***	***SSW 0 - 1/8 (0.059 mi.)***	***F46***	***157***
440 W. 24TH ST	440 W. 24TH ST	SE 0 - 1/8 (0.099 mi.)	P103	336
LUNDON TERRACE GARDEN APT	***415 WEST 23RD ST***	***SE 0 - 1/8 (0.099 mi.)***	***P105***	***338***
440 WEST 24TH ST/MANHATTA	***440 WEST 24TH STREET***	***SE 0 - 1/8 (0.099 mi.)***	***P106***	***341***
LONDON TERRACE GARDENS	***450 WEST 24TH ST***	***SE 0 - 1/8 (0.099 mi.)***	***P107***	***344***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON W. 23 ST GW SPILL	500 W. 23RD ST.	SSW 0 - 1/8 (0.075 mi.)	F70	235
EXXON STATION	215 10TH AVE	SSW 0 - 1/8 (0.075 mi.)	F72	239
215 10TH AVENUE &23RD ST.	215 10TH AVENUE & 23RD	SSW 0 - 1/8 (0.075 mi.)	F73	240
215 10TH AVE.	215 10TH AVE.	SSW 0 - 1/8 (0.075 mi.)	F74	241
MENDON LEASING	527 WEST 23RD STREET	WSW 0 - 1/8 (0.083 mi.)	G82	258
Not reported	***534-548 W 25TH ST***	***NNW 0 - 1/8 (0.083 mi.)***	***I87***	***286***
Not reported	***534 W 25TH ST***	***NNW 0 - 1/8 (0.083 mi.)***	***I88***	***288***
WEST 24TH ST	***BTW 10TH & 11TH AVENUE***	***WNW 0 - 1/8 (0.087 mi.)***	***K92***	***307***
543 TO 547 W. 23RD ST.	***543-547 W. 23RD ST.***	***W 0 - 1/8 (0.105 mi.)***	***R124***	***401***
GRAPHIC PROPERTIES	***555 WEST 25TH STREET***	***NW 0 - 1/8 (0.108 mi.)***	***N129***	***412***
560 WEST 25TH ST/MANHATTA	***560 WEST 25TH STREET***	***NW 0 - 1/8 (0.116 mi.)***	***N137***	***433***
MANHOLE 24185	***518 - 22 W 204 ST***	***SW 0 - 1/8 (0.116 mi.)***	***T138***	***435***
555 WEST 23RD ST	***555 WEST 23RD ST***	***W 0 - 1/8 (0.117 mi.)***	***R140***	***444***
537 W 26TH ST	***537 W 26TH ST***	***NNW 0 - 1/8 (0.123 mi.)***	***W153***	***469***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/12/2013 has revealed that there are 35 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHANDER AUTO BODY FORMER	245 10TH AVE	ENE 0 - 1/8 (0.014 mi.)	A16	86
ADMIRATION GLOBE FUR DYEING CO	***521 W 26 ST***	***N 0 - 1/8 (0.104 mi.)***	***Q113***	***358***
EFFANBEE DOLL CORP	***508 W 26TH ST***	***N 0 - 1/8 (0.105 mi.)***	***Q121***	***380***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WEST SIDE IGNITION	*293 TENTH AVE*	*NNE 1/8 - 1/4 (0.130 mi.)*	*U163*	*504*
NYCHA - CHELSEA	*420 W 26TH ST*	*E 1/8 - 1/4 (0.154 mi.)*	*197*	*640*
10TH AVE SS INC - DHINSA GAS -	*303 10TH AVE*	*NNE 1/8 - 1/4 (0.162 mi.)*	*AL219*	*686*
ADMIRAL ENGRAVING & ETCHING LT	*547 W 27TH ST*	*N 1/8 - 1/4 (0.164 mi.)*	*AI235*	*754*
NYCHA - CHELSEA ELLIOTT HOUSES	*426 W 27TH STREET DR*	*ENE 1/8 - 1/4 (0.173 mi.)*	*AQ247*	*801*
CREATIVE LITHOGRAHPY INC	*263 9TH AVE*	*E 1/8 - 1/4 (0.189 mi.)*	*AV272*	*860*
ROSENBLATT & THOMPSON INC	*515 W 28TH ST*	*NNE 1/8 - 1/4 (0.196 mi.)*	*AX282*	*887*
AVALON WEST CHELSEA	525 W 28TH ST	NNE 1/8 - 1/4 (0.199 mi.)	AY285	902
EVAN AUTO INC	*319 10TH AVE*	*NNE 1/8 - 1/4 (0.206 mi.)*	*AW287*	*905*
NYC BD OF ED PUBLIC SCHOOL 33	*281 9TH AVE*	*E 1/8 - 1/4 (0.219 mi.)*	*BH325*	*1029*

Lower Elevation	Address	Direction / Distance	Map ID	Page
EMSIG MFG CORP	*521 W 23RD ST*	*WSW 0 - 1/8 (0.061 mi.)*	*G58*	*191*
EDISON PARK FAST	*527 W 23RD ST*	*WSW 0 - 1/8 (0.083 mi.)*	*G81*	*256*
L & M METAL INDUSRIES INC	*555 W 25TH ST 1ST FLOOR*	*NW 0 - 1/8 (0.108 mi.)*	*N126*	*403*
ASI SIGN SYTEMS	*555 W 25TH ST - 4TH FLO*	*NW 0 - 1/8 (0.108 mi.)*	*N128*	*410*
RATHE PRODUCTIONS INC	*555 W 23RD ST*	*W 0 - 1/8 (0.117 mi.)*	*R143*	*447*
U-HAUL CENTER CHELSEA	562 W 23RD ST	W 1/8 - 1/4 (0.129 mi.)	X159	487
CON EDISON	562 W 23 ST	W 1/8 - 1/4 (0.129 mi.)	X161	497
PENSKE TRUCK LEASING CO L P	*536 W 26TH ST*	*NNW 1/8 - 1/4 (0.150 mi.)*	*AC192*	*607*
NEW YORK STATE DEC	*507 W 21ST ST*	*SW 1/8 - 1/4 (0.162 mi.)*	*AG222*	*706*
HENRY & LLOYD CO THE	*507 W 21ST ST*	*SW 1/8 - 1/4 (0.162 mi.)*	*AG223*	*712*
HERTZ PENSKE TRUCK LEASING INC	*542 W 21ST ST*	*SW 1/8 - 1/4 (0.178 mi.)*	*AR252*	*814*
NYC TRANSIT NO 7 SUBWAY SITE A	*554 W 26TH ST*	*NNW 1/8 - 1/4 (0.179 mi.)*	*AP253*	*816*
PENSKE TRUCK LEASING CO L P	*550 W 21ST ST*	*WSW 1/8 - 1/4 (0.182 mi.)*	*AR262*	*832*
WILLIAMS COMMUNICATIONS GROUP	*601 W 26TH ST 1ST FLOOR*	*NW 1/8 - 1/4 (0.210 mi.)*	*BE305*	*978*
NYC HRA OFA	*260 11TH AVE*	*NNW 1/8 - 1/4 (0.212 mi.)*	*BF308*	*989*
CON EDISION - MH45881	*27TH ST. AT 11TH AVE 27*	*NNW 1/8 - 1/4 (0.213 mi.)*	*BF316*	*1005*
CON EDISION - SEWER	*27TH ST. AT 11TH AVE 27*	*NNW 1/8 - 1/4 (0.213 mi.)*	*BF317*	*1006*
CON ED - V 4289	*532 W 20 ST*	*SW 1/8 - 1/4 (0.215 mi.)*	*BG321*	*1019*
FEDERAL EXPRESS CORP	*600 W 27TH ST*	*NNW 1/8 - 1/4 (0.216 mi.)*	*BF323*	*1024*
NYSDOT - RTE 9A RECONSTRUCTION	*RTE 9A BLOCK 686 LOT 29*	*WNW 1/8 - 1/4 (0.231 mi.)*	*341*	*1064*
GETTY PETROLEUM CORP 58542	*152 10TH AVE*	*SSW 1/8 - 1/4 (0.232 mi.)*	*BK346*	*1089*
NYSDOT	*163 12TH AVE*	*WNW 1/8 - 1/4 (0.248 mi.)*	*361*	*1137*

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, and dated 12/31/2011 has revealed that there is 1 CONSENT site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUDSON RIVER PCBS	*NO STREET APPLICABLE*	*W 1/4 - 1/2 (0.347 mi.)*	*0*	*37*

EXECUTIVE SUMMARY

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 11/02/2012 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUDSON RIVER PCBS	***NO STREET APPLICABLE***	***W 1/4 - 1/2 (0.347 mi.)***	***0***	***37***

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 11/01/2012 has revealed that there are 52 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CONSOLIDATED EDISON	24 ST & 10 AVE MH43113	SSE 0 - 1/8 (0.012 mi.)	A15	85
UNDERGROUND TANK	***259 10TH AVE***	***NNE 0 - 1/8 (0.072 mi.)***	***H64***	***208***
INTERGRATED IMAGING CTR-508 W	***508 WEST 26TH STREET***	***N 0 - 1/8 (0.105 mi.)***	***Q122***	***381***
WEST SIDE IGNITION	***293 TENTH AVE***	***NNE 1/8 - 1/4 (0.130 mi.)***	***U163***	***504***
SYBERT-NICHOLAS PRINT CORP-420	***420 WEST 25TH ST***	***ESE 1/8 - 1/4 (0.139 mi.)***	***AA171***	***536***
SPERANZA PROPERTIES LLC	448 W 22ND ST	SSE 1/8 - 1/4 (0.148 mi.)	AF185	573
NYCHA - CHELSEA	***420 W 26TH ST***	***E 1/8 - 1/4 (0.154 mi.)***	***197***	***640***
DHS GARAGE	***537-545 W 27TH ST***	***N 1/8 - 1/4 (0.159 mi.)***	***AI205***	***659***
LONDON TERRACE CLEANERS	***410 W 24TH ST***	***SE 1/8 - 1/4 (0.163 mi.)***	***AD225***	***715***
ADMIRAL ENGRAVING & ETCHING LT	***547 W 27TH ST***	***N 1/8 - 1/4 (0.164 mi.)***	***AI235***	***754***
OXFORD CLEANERS	***232 9TH AVE***	***ESE 1/8 - 1/4 (0.182 mi.)***	***AS264***	***838***
TANASEYBERT LLC	***263 9TH AVE***	***E 1/8 - 1/4 (0.189 mi.)***	***AV273***	***862***
NYCDEP	10TH AVE & W 28TH ST	NNE 1/8 - 1/4 (0.192 mi.)	AW277	881
ROSENBLATT & THOMPSON INC	***515 W 28TH ST***	***NNE 1/8 - 1/4 (0.196 mi.)***	***AX282***	***887***
AVALON WEST CHELSEA	525 W 28TH ST	NNE 1/8 - 1/4 (0.199 mi.)	AY284	899
EVAN AUTO INC	***319 10TH AVE***	***NNE 1/8 - 1/4 (0.206 mi.)***	***AW287***	***905***
MANHATTAN FRENCH CLEANERS	***198 9TH AVE***	***SSE 1/8 - 1/4 (0.212 mi.)***	***BA313***	***995***
NYC BD OF ED PUBLIC SCHOOL 33	***281 9TH AVE***	***E 1/8 - 1/4 (0.219 mi.)***	***BH325***	***1029***
RITE AID #4196	188 9TH AVE	SSE 1/8 - 1/4 (0.227 mi.)	BI335	1054
NYCDEP	10TH AVE & 29TH ST	NNE 1/8 - 1/4 (0.238 mi.)	BL350	1094

Lower Elevation	Address	Direction / Distance	Map ID	Page
EXXON 3-2253	***215 10TH AVE***	***SSW 0 - 1/8 (0.075 mi.)***	***F69***	***222***
CONSOLIDATED EDISON	520 W 23 ST MH4171	WSW 0 - 1/8 (0.079 mi.)	G75	242
ASI SIGN SYSTEMS	555 W 25TH ST	NW 0 - 1/8 (0.108 mi.)	N125	403
L & M METAL INDUSRIES INC	***555 W 25TH ST 1ST FLOOR***	***NW 0 - 1/8 (0.108 mi.)***	***N126***	***403***
CONSOLIDATED EDISON	10TH AVE & W 22ND ST	SSW 0 - 1/8 (0.111 mi.)	O132	423
555 WEST 23RD ST	***555 WEST 23RD ST***	***W 0 - 1/8 (0.117 mi.)***	***R140***	***444***
CONSOLIDATED EDISON	520 W 22ND ST	SW 0 - 1/8 (0.120 mi.)	T145	455
DIA ART FOUNDATION	***535 W 22ND ST***	***SW 0 - 1/8 (0.124 mi.)***	***T155***	***474***
U-HAUL CENTER CHELSEA	***562 WEST 23RD STREET***	***W 1/8 - 1/4 (0.129 mi.)***	***X162***	***498***
PENSKE TRUCK LEASING CO L P	***536 W 26TH ST***	***NNW 1/8 - 1/4 (0.150 mi.)***	***AC192***	***607***
CONSOLIDATED EDISON	V575-101 W 22ND ST	WSW 1/8 - 1/4 (0.160 mi.)	208	664
NEW YORK STATE DEC	***507 W 21ST ST***	***SW 1/8 - 1/4 (0.162 mi.)***	***AG222***	***706***
CONSOLIDATED EDISON	519 W 21 ST SB3762	SW 1/8 - 1/4 (0.166 mi.)	AG239	772
NYCT-PARKING LOT	***220 11TH AVENUE***	***NW 1/8 - 1/4 (0.166 mi.)***	***AO241***	***773***
CONSOLIDATED EDISON	11TH AVE & 25TH ST	NW 1/8 - 1/4 (0.167 mi.)	AO244	795
NYC TRANSIT NO 7 SUBWAY SITE A	***554 W 26TH ST***	***NNW 1/8 - 1/4 (0.179 mi.)***	***AP253***	***816***
EMPIRE CITY SUBWAY	177 10TH AVE	SSW 1/8 - 1/4 (0.180 mi.)	AJ255	819

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
PENSKE TRUCK LEASING CO L P	*550 W 21ST ST*	*WSW 1/8 - 1/4 (0.182 mi.)*	*AR262*	*832*
EVERGREEN STUDIO	*635 W 23RD ST*	*WNW 1/8 - 1/4 (0.191 mi.)*	*AT275*	*877*
601 WEST ASSOCIATES- STARRETT	*601 W 26TH ST - BASEMEN*	*NW 1/8 - 1/4 (0.210 mi.)*	*BE301*	*929*
FBI AUTOMOTIVE REPAIR UNIT	*601 W 26TH ST - 2ND FLO*	*NW 1/8 - 1/4 (0.210 mi.)*	*BE302*	*940*
WILLIAMS COMMUNICATIONS GROUP	*601 W 26TH ST 1ST FLOOR*	*NW 1/8 - 1/4 (0.210 mi.)*	*BE305*	*978*
NYC HRA OFA	*260 11TH AVE*	*NNW 1/8 - 1/4 (0.212 mi.)*	*BF308*	*989*
CON EDISION - MH45881	*27TH ST. AT 11TH AVE 27*	*NNW 1/8 - 1/4 (0.213 mi.)*	*BF316*	*1005*
CON EDISION - SEWER	*27TH ST. AT 11TH AVE 27*	*NNW 1/8 - 1/4 (0.213 mi.)*	*BF317*	*1006*
CON ED - V 4289	*532 W 20 ST*	*SW 1/8 - 1/4 (0.215 mi.)*	*BG321*	*1019*
CON EDISON - VAULT 1535	*26 ST 601*	*NW 1/8 - 1/4 (0.215 mi.)*	*BE322*	*1021*
BAYVIEW CORRECTIONAL	*550 WEST 20TH STREET*	*SW 1/8 - 1/4 (0.221 mi.)*	*BG331*	*1043*
NYSDOT - RTE 9A RECONSTRUCTION	*RTE 9A BLOCK 686 LOT 29*	*WNW 1/8 - 1/4 (0.231 mi.)*	*341*	*1064*
GETTY PETROLEUM CORP 58542	*152 10TH AVE*	*SSW 1/8 - 1/4 (0.232 mi.)*	*BK346*	*1089*
NYSDOT	*163 12TH AVE*	*WNW 1/8 - 1/4 (0.248 mi.)*	*361*	*1137*
CONSOLIDATED EDISON	*281 11TH AVE*	*N 1/8 - 1/4 (0.249 mi.)*	*BJ363*	*1148*

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 11/01/2012 has revealed that there are 3 NJ MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TENANTS IN COMMON 27TH STREET	*537-545 W 27TH ST*	*N 1/8 - 1/4 (0.159 mi.)*	*AI206*	*660*

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCT-PARKING LOT	*220 11TH AVENUE*	*NW 1/8 - 1/4 (0.166 mi.)*	*AO241*	*773*
US POSTAL SVC VMF	25TH ST & 11TH	NW 1/8 - 1/4 (0.166 mi.)	AO243	786

NY DRYCLEANERS: A listing of all registered drycleaning facilities.

A review of the NY DRYCLEANERS list, as provided by EDR, and dated 06/20/2012 has revealed that there are 4 NY DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LONDON TERRACE/CIM CLEANERS	410 W. 24TH STREET	SE 1/8 - 1/4 (0.163 mi.)	AD228	738
OXFORD CLEANERS	*232 9TH AVE*	*ESE 1/8 - 1/4 (0.182 mi.)*	*AS264*	*838*
JEAN'S MANHATTAN FRENCH CLEANE	198 9TH AVENUE	SSE 1/8 - 1/4 (0.212 mi.)	BA311	994
APHRODITE FRENCH CLEANERS	186 9TH AVE	SSE 1/8 - 1/4 (0.230 mi.)	BI339	1063

NY E DESIGNATION: Lots designation with an ?E? on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts.

A review of the NY E DESIGNATION list, as provided by EDR, and dated 10/11/2012 has revealed that there are 27 NY E DESIGNATION sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 33,TAXBLOCK 696	245 10 AVENUE	ENE 0 - 1/8 (0.014 mi.)	A18	87
LOT 35,TAXBLOCK 696	249 10 AVENUE	NE 0 - 1/8 (0.023 mi.)	A23	96
LOT 37,TAXBLOCK 696	253 10 AVENUE	NE 0 - 1/8 (0.033 mi.)	B24	99

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 38,TAXBLOCK 696	255 10 AVENUE	NE 0 - 1/8 (0.038 mi.)	B26	105
LOT 27,TAXBLOCK 697	507 WEST 25 STREET	N 0 - 1/8 (0.056 mi.)	D38	144
LOT 39,TAXBLOCK 694	500 WEST 23 STREET	SSW 0 - 1/8 (0.060 mi.)	F54	178
LOT 31,TAXBLOCK 697	259 10 AVENUE	NNE 0 - 1/8 (0.072 mi.)	H63	204
LOT 32,TAXBLOCK 698	279 10 AVENUE	NE 0 - 1/8 (0.093 mi.)	M99	319
LOT 35,TAXBLOCK 698	285 10 AVENUE	NNE 0 - 1/8 (0.109 mi.)	M130	415
LOT 37,TAXBLOCK 698	289 10 AVENUE	NNE 0 - 1/8 (0.120 mi.)	U147	456

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 28,TAXBLOCK 696	505 WEST 24 STREET	WNW 0 - 1/8 (0.036 mi.)	C25	102
LOT 44,TAXBLOCK 695	508 WEST 24 STREET	WNW 0 - 1/8 (0.041 mi.)	C28	120
LOT 26,TAXBLOCK 696	511 WEST 24 STREET	WNW 0 - 1/8 (0.049 mi.)	C33	134
LOT 47,TAXBLOCK 695	514 WEST 24 STREET	WNW 0 - 1/8 (0.052 mi.)	C36	139
LOT 40,TAXBLOCK 694	512 WEST 23 STREET	WSW 0 - 1/8 (0.067 mi.)	G60	194
LOT 15,TAXBLOCK 695	527 WEST 23 STREET	WSW 0 - 1/8 (0.083 mi.)	G85	283
LOT 42,TAXBLOCK 694	514 WEST 23 STREET	SW 0 - 1/8 (0.084 mi.)	89	292
LOT 47,TAXBLOCK 694	524 WEST 23 STREET	WSW 0 - 1/8 (0.086 mi.)	J91	301
LOT 33,TAXBLOCK 694	207 10 AVENUE	SSW 0 - 1/8 (0.095 mi.)	O101	330
LOT 32,TAXBLOCK 694	205 10 AVENUE	SSW 0 - 1/8 (0.100 mi.)	O110	350
LOT 58,TAXBLOCK 696	550 WEST 25 STREET	NW 0 - 1/8 (0.103 mi.)	N112	353
LOT 58,TAXBLOCK 694	536 WEST 23 STREET	W 0 - 1/8 (0.104 mi.)	J118	371
LOT 31,TAXBLOCK 694	203 10 AVENUE	SSW 0 - 1/8 (0.105 mi.)	O120	377
LOT 30,TAXBLOCK 694	505 WEST 22 STREET	SSW 0 - 1/8 (0.110 mi.)	O131	420
LOT 60,TAXBLOCK 694	548 WEST 23 STREET	W 0 - 1/8 (0.115 mi.)	R135	426
LOT 7503,TAXBLOCK 695	555 WEST 23 STREET	W 0 - 1/8 (0.117 mi.)	R139	438
LOT 61,TAXBLOCK 694	552 WEST 23 STREET	W 0 - 1/8 (0.119 mi.)	R144	451

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there are 4 EDR MGP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON - WEST 42ND ST. GAS	WEST 41ST - WEST 42ND S	NNE 1/2 - 1 (0.871 mi.)	430	1400

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON - 19TH ST. WORKS MG	11TH AVE BETWEEN W 19TH	SW 1/4 - 1/2 (0.255 mi.)	366	1164
CON EDISON - WEST 18TH ST. GAS	WEST 16TH - WEST 20TH S	SSW 1/4 - 1/2 (0.272 mi.)	BO371	1174
19TH STREET DEVELOPMENT SITE	80 11TH AVENUE	SW 1/4 - 1/2 (0.304 mi.)	BQ379	1195

EXECUTIVE SUMMARY

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 62 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	245 10TH AVE	ENE 0 - 1/8 (0.014 mi.)	A17	87
Not reported	247 10TH AVE	ENE 0 - 1/8 (0.018 mi.)	A21	95
Not reported	249 10TH AVE	NE 0 - 1/8 (0.023 mi.)	A22	95
Not reported	500 W 25TH ST	N 0 - 1/8 (0.050 mi.)	D35	139
Not reported	510 W 25TH ST	NNW 0 - 1/8 (0.058 mi.)	D40	149
Not reported	465 W 23RD ST	SSE 0 - 1/8 (0.091 mi.)	L93	310
Not reported	279 10TH AVE	NE 0 - 1/8 (0.093 mi.)	M97	317
Not reported	513 W 26TH ST	N 0 - 1/8 (0.104 mi.)	Q119	376
Not reported	289 10TH AVE	NNE 0 - 1/8 (0.120 mi.)	U146	456
Not reported	288 10TH AVE	NNE 1/8 - 1/4 (0.127 mi.)	U157	479
Not reported	420 W 25TH ST	ESE 1/8 - 1/4 (0.139 mi.)	AA170	535
Not reported	514 W 27TH ST	NNE 1/8 - 1/4 (0.145 mi.)	AB179	565
Not reported	516 W 27TH ST	NNE 1/8 - 1/4 (0.146 mi.)	AE182	567
Not reported	519 W 27TH ST	NNE 1/8 - 1/4 (0.149 mi.)	AE187	576
Not reported	533 W 27TH ST	N 1/8 - 1/4 (0.155 mi.)	AE198	642
Not reported	544 W 27TH ST	N 1/8 - 1/4 (0.161 mi.)	AI212	666
Not reported	303 10TH AVE	NNE 1/8 - 1/4 (0.162 mi.)	AL217	678
Not reported	305 10TH AVE	NNE 1/8 - 1/4 (0.162 mi.)	AL220	688
Not reported	547 W 27TH ST	N 1/8 - 1/4 (0.164 mi.)	AI236	768
Not reported	550 W 27TH ST	N 1/8 - 1/4 (0.166 mi.)	AI240	773
Not reported	215 9TH AVE	SE 1/8 - 1/4 (0.185 mi.)	268	857
Not reported	313 10TH AVE	NNE 1/8 - 1/4 (0.192 mi.)	AW278	882
Not reported	263 9TH AVE	E 1/8 - 1/4 (0.196 mi.)	AV281	887
Not reported	319 10TH AVE	NNE 1/8 - 1/4 (0.206 mi.)	AW286	904
Not reported	199 9TH AVE	SSE 1/8 - 1/4 (0.206 mi.)	BA290	914
Not reported	544 W 28TH ST	N 1/8 - 1/4 (0.207 mi.)	BB291	915
Not reported	546 W 28TH ST	N 1/8 - 1/4 (0.208 mi.)	BB293	916
Not reported	548 W 28TH ST	N 1/8 - 1/4 (0.209 mi.)	BB295	916
Not reported	547 W 28TH ST	N 1/8 - 1/4 (0.209 mi.)	BB297	920
Not reported	549 W 28TH ST	N 1/8 - 1/4 (0.211 mi.)	BB307	989
Not reported	554 W 28TH ST	N 1/8 - 1/4 (0.212 mi.)	BB310	994
Not reported	556 W 28TH ST	N 1/8 - 1/4 (0.214 mi.)	BB318	1009
Not reported	188 9TH AVE	SSE 1/8 - 1/4 (0.227 mi.)	BI334	1054
Not reported	327 10TH AVE	NNE 1/8 - 1/4 (0.237 mi.)	BL348	1093
Not reported	329 10TH AVE	NNE 1/8 - 1/4 (0.238 mi.)	BL351	1095
Not reported	518 W 29TH ST	NNE 1/8 - 1/4 (0.241 mi.)	BM354	1100
Not reported	530 W 29TH ST	NNE 1/8 - 1/4 (0.245 mi.)	BM358	1120
Not reported	540 W 29TH ST	NNE 1/8 - 1/4 (0.248 mi.)	362	1148

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	549 W 25TH ST	NW 0 - 1/8 (0.101 mi.)	N111	353
Not reported	555 W 23RD ST	W 0 - 1/8 (0.117 mi.)	R142	447
Not reported	559 W 23RD ST	W 0 - 1/8 (0.121 mi.)	R148	461

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	552 W 24TH ST	WNW 0 - 1/8 (0.121 mi.)	V151	465
Not reported	533 W 26TH ST	NNW 1/8 - 1/4 (0.125 mi.)	W156	479
Not reported	545 W 26TH ST	NNW 1/8 - 1/4 (0.143 mi.)	AC175	558
Not reported	547 W 26TH ST	NNW 1/8 - 1/4 (0.146 mi.)	AC181	567
Not reported	202 11TH AVE	WNW 1/8 - 1/4 (0.151 mi.)	AH194	635
Not reported	188 11TH AVE	WNW 1/8 - 1/4 (0.160 mi.)	AK209	665
Not reported	196 11TH AVE	WNW 1/8 - 1/4 (0.160 mi.)	AH210	665
Not reported	198 11TH AVE	WNW 1/8 - 1/4 (0.161 mi.)	AH211	666
Not reported	186 11TH AVE	WNW 1/8 - 1/4 (0.161 mi.)	AK213	666
Not reported	506 W 21ST ST	SW 1/8 - 1/4 (0.164 mi.)	AG232	751
Not reported	508 W 21ST ST	SW 1/8 - 1/4 (0.164 mi.)	AG234	753
Not reported	500 W 21ST ST	SW 1/8 - 1/4 (0.165 mi.)	AG237	768
Not reported	589 W 24TH ST	WNW 1/8 - 1/4 (0.181 mi.)	261	832
Not reported	622 W 23RD ST	W 1/8 - 1/4 (0.185 mi.)	AT269	857
Not reported	162 11TH AVE	W 1/8 - 1/4 (0.186 mi.)	AU270	858
Not reported	507 W 20TH ST	SW 1/8 - 1/4 (0.207 mi.)	BC292	915
Not reported	511 W 20TH ST	SW 1/8 - 1/4 (0.208 mi.)	BC294	916
Not reported	512 W 20TH ST	SW 1/8 - 1/4 (0.210 mi.)	BC299	924
Not reported	266 11TH AVE	NNW 1/8 - 1/4 (0.220 mi.)	BF326	1031
Not reported	152 10TH AVE	SSW 1/8 - 1/4 (0.232 mi.)	BK345	1089
Not reported	282 11TH AVE	N 1/8 - 1/4 (0.248 mi.)	BJ360	1137

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 10 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	450 W 24TH ST	SE 0 - 1/8 (0.055 mi.)	E37	144
Not reported	410 W 24TH ST	ESE 1/8 - 1/4 (0.152 mi.)	AD196	639
Not reported	233 9TH AVE	ESE 1/8 - 1/4 (0.180 mi.)	AS258	823
Not reported	232 9TH AVE	ESE 1/8 - 1/4 (0.182 mi.)	AS265	851
Not reported	400 W 23RD ST	SE 1/8 - 1/4 (0.185 mi.)	AM267	856
Not reported	198 9TH AVE	SSE 1/8 - 1/4 (0.212 mi.)	BA312	995
Not reported	186 9TH AVE	SSE 1/8 - 1/4 (0.230 mi.)	BI340	1064
Not reported	182 9TH AVE	SSE 1/8 - 1/4 (0.237 mi.)	BI349	1094

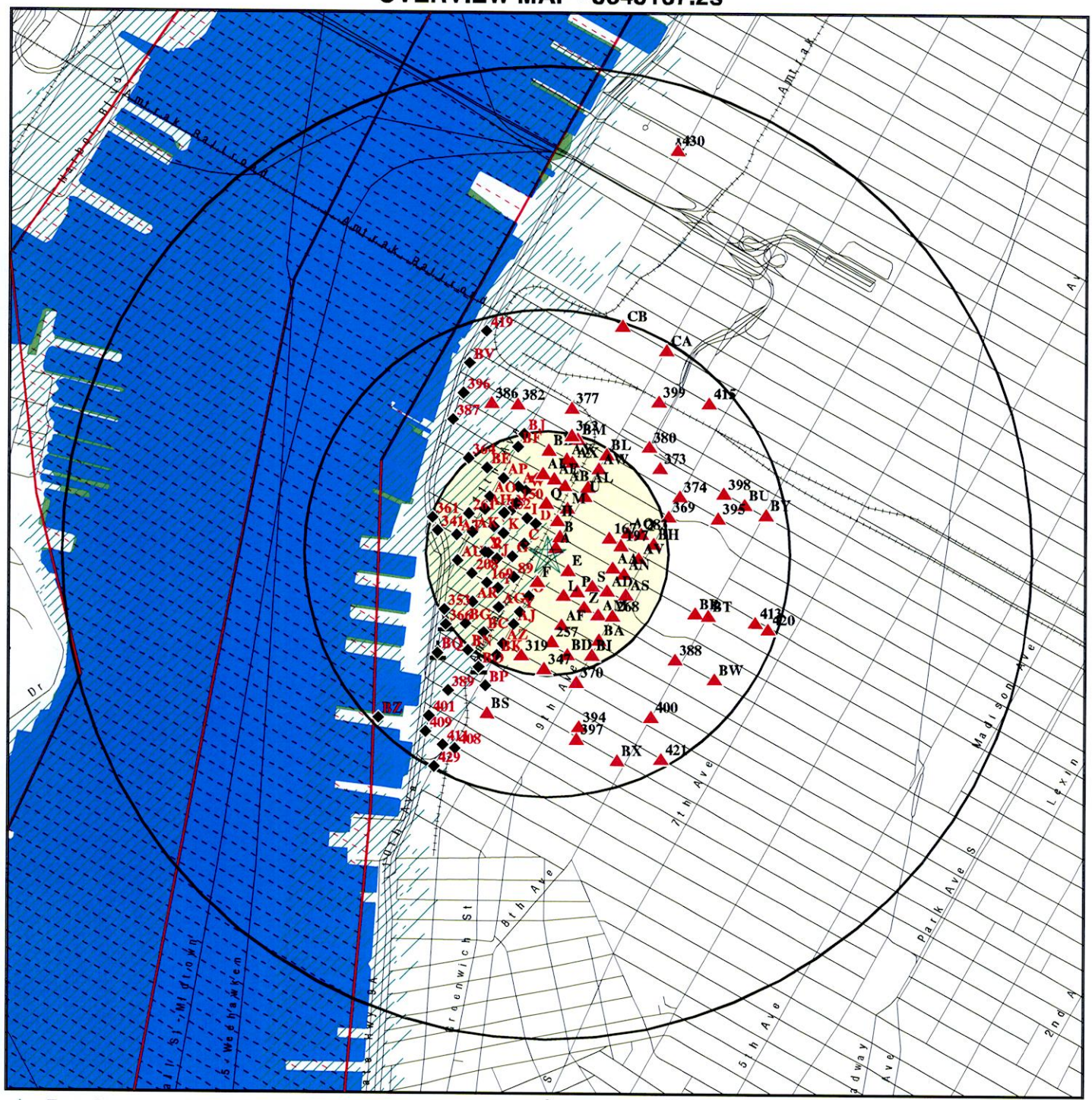
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	520 W 23RD ST	WSW 0 - 1/8 (0.079 mi.)	G77	246
Not reported	555 W 23RD ST	W 0 - 1/8 (0.117 mi.)	R141	447

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
ALBEE SERVICES INC	CERCLIS-NFRAP,AIRS
FERGUSON PROPELLER INC	BROWNFIELDS,UST,ENG
	CONTROLS,VCP,INST CONTROL,HWS
MUNICIPAL GARAGE	BROWNFIELDS,UST,INST CONTROL,HWS
VERIZON NEW YORK INC	FINDS,MANIFEST
STAHL SOAP CORP	FINDS,MANIFEST,MANIFEST,FINANCIAL ASSURANCE,UST,RCI
CONSOLIDATED EDISON	MANIFEST
VERIZON NEW YORK INC. MANHOLE	MANIFEST
BELL ATLANTIC NY	MANIFEST
BELL ATLANTIC NY	MANIFEST
CONSOLIDATED EDISON	MANIFEST
HOBOKEN TANK LINES INC	FINDS,RCRA-NLR,HWS,UST,BROWNFIELDS
NYC DOS WEST 30TH STREET RECYCLING	LF
SUNOCO STATION (CAVANT)	AST
WEST 30TH ST. RECYCLING FACILITY (	AST
VERIZON NEW YORK INC	RCRA-NLR
NYCDEP TUNNEL 1 DIST CHAMBER	FINDS,RCRA-NLR
59TH GENERATION STATION	SPILLS
THE CONTAINER STORE	VCP
PARAMUS CAR WASH,TWIN OAKS DINER &	VCP
SUNOCO STATION (CAVANT)	HIST UST

OVERVIEW MAP - 3543187.2s



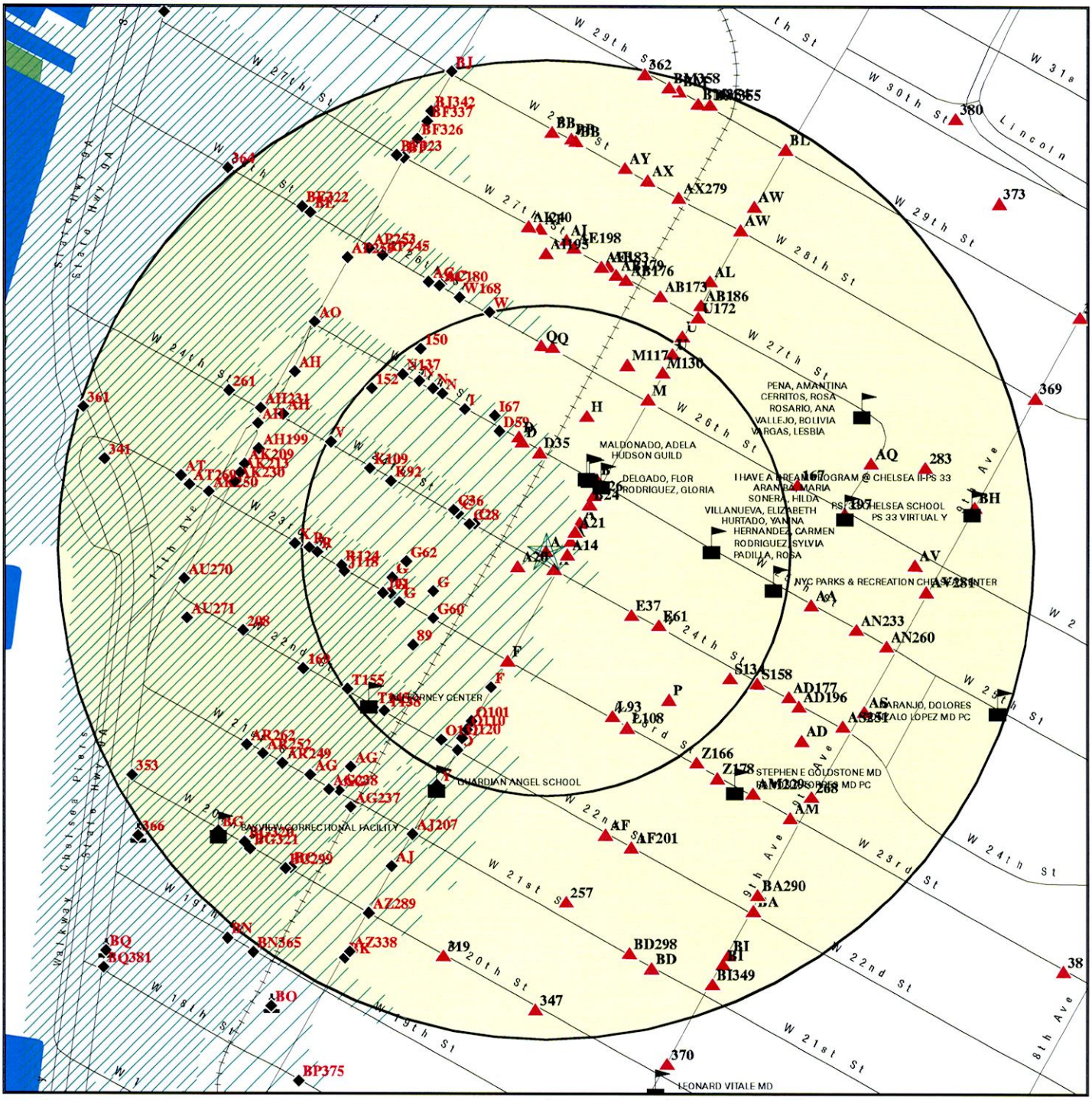
0 1/4 1/2 1 Miles

- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York NY 10001 LAT/LONG: 40.7485 / 74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY #: 3543187.2s DATE: March 13, 2013 3:37 pm

DETAIL MAP - 3543187.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

0 1/16 1/8 1/4 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: M9245	CLIENT: Merritt Environmental Consulting Corp.
ADDRESS: 239-243 10TH AVENUE New York NY 10001	CONTACT: KELLI CULLEN
LAT/LONG: 40.7485 / 74.0038	INQUIRY #: 3543187.2s DATE: March 13, 2013 3:38 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	1	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	1	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	2	NR	NR	NR	3
RCRA-SQG	0.250		1	3	NR	NR	NR	4
RCRA-CESQG	0.250		4	11	NR	NR	NR	15
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	1	NR	NR	1
US INST CONTROL	0.500		0	0	1	NR	NR	1
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
NY SHWS	1.000		0	0	0	0	NR	0
NJ SHWS	1.000		0	0	0	0	NR	0
NY VAPOR REOPENED	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
NY SWF/LF	0.500		0	0	2	NR	NR	2
NJ SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
NY LTANKS	0.500	2	8	22	51	NR	NR	83

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY HIST LTANKS	0.500	3	6	24	42	NR	NR	75
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
NY TANKS	0.250		0	3	NR	NR	NR	3
NY UST	0.250	1	13	24	NR	NR	NR	38
NJ UST	0.250		0	0	NR	NR	NR	0
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY AST	0.250		10	38	NR	NR	NR	48
NY CBS AST	0.250		0	0	NR	NR	NR	0
NY MOSF AST	0.500		0	0	0	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY CBS	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
NY ENG CONTROLS	0.500		0	0	2	NR	NR	2
NJ ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	2	NR	NR	2
NJ INST CONTROL	0.500		0	0	0	NR	NR	0
NY RES DECL	0.125		0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
NY VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
NJ VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
NY ERP	0.500		0	0	0	NR	NR	0
NY BROWNFIELDS	0.500		0	0	3	NR	NR	3
NJ BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
NY SWRCY	0.500		0	0	0	NR	NR	0
NY SWTIRE	0.500		0	0	0	NR	NR	0
NJ SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY DEL SHWS	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
NY HIST UST	0.250	1	11	29	NR	NR	NR	41
NY HIST AST	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
NY LIENS	TP		NR	NR	NR	NR	NR	0
NJ LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125	2	46	NR	NR	NR	NR	48
NY Hist Spills	0.125	3	25	NR	NR	NR	NR	28
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		8	27	NR	NR	NR	35
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	1	0	NR	1
ROD	1.000		0	0	1	0	NR	1
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY UIC	TP		NR	NR	NR	NR	NR	0
NJ UIC	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250		11	41	NR	NR	NR	52
NJ MANIFEST	0.250		0	3	NR	NR	NR	3
NY DRYCLEANERS	0.250		0	4	NR	NR	NR	4
NJ DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NY NPDES	TP		NR	NR	NR	NR	NR	0
NJ NPDES	TP		NR	NR	NR	NR	NR	0
NY AIRS	TP		NR	NR	NR	NR	NR	0
NY E DESIGNATION	0.125	1	27	NR	NR	NR	NR	28
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY Financial Assurance	TP		NR	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NJ COAL ASH	0.500		0	0	0	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
NJ Financial Assurance	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	3	1	NR	4
EDR US Hist Auto Stat	0.250	1	13	49	NR	NR	NR	63
EDR US Hist Cleaners	0.250		3	7	NR	NR	NR	10

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

LOT 32,TAXBLOCK 696
239 10 AVENUE
MANHATTAN, NY 10001

NY E DESIGNATION **S108076917**
N/A

Site 1 of 23 in cluster A

Actual:
12 ft.

E DESIGNATION:

Tax Lot(s):	32
E-No:	E-142
Effective Date:	6/23/2005
Satisfaction Date:	Not reported
Ceqr Number:	03DCP069M
Ulurp Number:	050161 ZRM
Zoning Map No:	8b
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	MN
Community District:	104
Census Tract:	99
Census Block:	2006
School District:	02
City Council District:	03
Fire Company:	E003
Health Area:	15
Police Precinct:	010
Zone District 1:	C6-3
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	WCH
Special Purpose District2:	Not reported
All Components1:	C6-3/WCH
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G5
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	LEEMILTS PETROLEUM IN
Lot Area:	000005520
Total Building Floor Area:	00000001904
Commercial Floor Area:	00000001904
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000001904
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00002
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0078.92
Lot Depth:	0070.00
Building Frontage:	0034.00
Building Depth:	0056.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	3

LOT 32,TAXBLOCK 696 (Continued) **S108076917**

Basement Type Grade:	5
Land Assessed Value:	00000202500
Total Assessed Value:	00000630000
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1950
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.34
Maximum Allowable Far:	7.52
Borough Code:	1
Borough Tax Block And Lot:	1006960032
Condominium Number:	00000
Census Tract 2:	0099
X Coordinate:	0983183
Y Coordinate:	0212028
Zoning Map:	08B
Sanborn Map:	105S003
Tax Map:	10301
E Designation No:	E-142
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	32
E-No:	E-142
Effective Date:	6/23/2005
Satisfaction Date:	Not reported
Ceqr Number:	03DCP069M
Ulurp Number:	050161 ZRM
Zoning Map No:	8b
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	MN
Community District:	104
Census Tract:	99
Census Block:	2006
School District:	02
City Council District:	03
Fire Company:	E003
Health Area:	15
Police Precinct:	010
Zone District 1:	C6-3
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	WCH
Special Purpose District2:	Not reported
All Components1:	C6-3/WCH

LOT 32,TAXBLOCK 696 (Continued) **S108076917**

All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G5
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	LEEMILTS PETROLEUM IN
Lot Area:	000005520
Total Building Floor Area:	00000001904
Commercial Floor Area:	00000001904
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000001904
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code	7
Number of Buildings:	00002
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0078.92
Lot Depth:	0070.00
Building Frontage:	0034.00
Building Depth:	0056.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000202500
Total Assessed Value:	00000630000
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1950
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.34
Maximum Allowable Far:	7.52
Borough Code:	1
Borough Tax Block And Lot:	1006960032
Condominium Number:	00000
Census Tract 2:	0099
X Coordinate:	0983183
Y Coordinate:	0212028
Zoning Map:	08B
Sanborn Map:	105S003
Tax Map:	10301
E Designation No:	E-142
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006

LOT 32,TAXBLOCK 696 (Continued) **S108076917**

Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

A2 Target Property **GETTY GAS STATION**
239 10 AV
NYC, NY

NY LTANKS **S106703285**
NY HIST LTANKS **N/A**
NY Spills

Site 2 of 23 in cluster A

Actual: 12 ft.

LTANKS:

Site ID:	315130
Spill No:	8806159
Spill Date:	10/20/1988
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/29/1994
Facility Addr2:	Not reported
Cleanup Ceased:	7/29/1994
Cleanup Meets Standard:	True
SWIS:	3101
Investigator:	SULLIVAN
Referred To:	Not reported
Reported to Dept:	10/21/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	11/2/1988
Spill Record Last Update:	3/14/2005
Spiller Name:	TOM DIXON(CONTACT)
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	254062
DEC Memo:	Not reported
Remarks:	2 4K TKS BOTH L R'S UNREADABLE. GETTY WILL EXCAV & INVES.

Material:

Site ID:	315130
Operable Unit ID:	921327
Operable Unit:	01
Material ID:	454514
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum

GETTY GAS STATION (Continued) **S106703285**

Quantity: -1
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 315130
Spill Tank Test: 1534794
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

HIST LTANKS:
Region of Spill: 2
Spill Number: 8806159
Spill Date: 10/20/1988
Spill Time: 15:00
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Gas Station
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 07/29/94
Cleanup Ceased: 07/29/94
Cleanup Meets Standard: True
Investigator: SULLIVAN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 10/21/88
Reported to Department Time: 08:41
SWIS: 62
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: SAME
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (718) 729-6500
Facility Extention: Not reported
Spill Notifier: Tank Tester

GETTY GAS STATION (Continued) **S106703285**

PBS Number: 2-287504
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 11/02/88
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 08/01/94
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 08/01/94: SEE EPS LETTER DATED 7/29/94 AND CROSS REFERENCE TO SPILL 8806160. LATEST PRECISION RESULTS GIVEN TO PBS UNIT.
Spill Cause: 2 4K TKS BOTH L R S UNREADABLE. GETTY WILL EXCAV INVES.

SPILLS:
Facility ID: 0509792
DER Facility ID: 305662
Facility Type: ER
Site ID: 355627
DEC Region: 2
Spill Number: 0509792
Spill Date: 11/15/2005
Spill Cause: Human Error
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Date: 11/16/2005
SWIS: 3101
Investigator: SFRAHMAN
Referred To: Not reported
Reported to Dept: 11/15/2005
CID: 406
Water Affected: Not reported
Spill Source: Passenger Vehicle

GETTY GAS STATION (Continued) **S106703285**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/15/2005
Spill Record Last Update:	11/16/2005
Spiller Name:	UNKNOWN NAME
Spiller Company:	UNKNOWN CUSTOMER
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	MIKE CARR
Contact Phone:	(518) 786-3200 223
DEC Memo:	11.16.05 Sharif-Left a messege for Mike Carr, (518)786-3200x223 to follow up the spill .Tyree returned my call to say that spill was cleaned up by the getty operator. No sewer/soil was affected.It was on the concrete.
Remarks:	1/2 gallon of material released due to customer overfill . Used speedy dry for clean up. Clean up is complete.

Material:

Site ID:	355627
Operable Unit ID:	1112975
Operable Unit:	01
Material ID:	2103021
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

A3 Target Property **GETTY SERVICE STATION #341**
239 TENTH AVENUE
NEW YORK, NY 10011

NY UST U000403440
NY HIST UST N/A

Site 3 of 23 in cluster A

Actual: 12 ft.

UST:

Facility Id:	2-151270
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	2014/06/29
UTM X:	584150.64500000002
UTM Y:	4511323.3566100001

Affiliation Records:

Site Id:	4669
Affiliation Type:	Mail Contact
Company Name:	GETTY PETROLEUM MARKETING INC
Contact Type:	ENVIRONMENTAL COMPLIANCE MANAGER
Contact Name:	SCOTT HANLEY
Address1:	1500 HEMPSTEAD TURNPIKE
Address2:	Not reported
City:	EAST MEADOW
State:	NY
Zip Code:	11554
Country Code:	001
Phone:	(516) 542-4900
Phone Ext:	Not reported
Email:	SHANLEY@GETTY.COM
Fax Number:	Not reported
Modified By:	rjschowe
Date Last Modified:	6/8/2010

Site Id:	4669
Affiliation Type:	On-Site Operator
Company Name:	GETTY SERVICE STATION #341
Contact Type:	Not reported
Contact Name:	A&R PETROLEUM INC.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 727-8793
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	bkfalvey
Date Last Modified:	9/5/2008

Site Id:	4669
Affiliation Type:	Emergency Contact
Company Name:	GETTY PETROLEUM MARKETING INC
Contact Type:	Not reported
Contact Name:	SCOTT HANLEY
Address1:	Not reported
Address2:	Not reported

GETTY SERVICE STATION #341 (Continued) **U000403440**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 324-5110
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	7/6/2010

Site Id:	4669
Affiliation Type:	Owner
Company Name:	GETTY PETROLEUM MARKETING INC
Contact Type:	AUTHORIZED AGENT FOR OWNER
Contact Name:	MICHAEL CARR
Address1:	1500 HEMPSTEAD TPK.
Address2:	Not reported
City:	EAST MEADOW
State:	NY
Zip Code:	11554
Country Code:	001
Phone:	(516) 542-4900
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	5/6/2009

Tank Info:

Site ID:	4669

Tank Number:	001
Tank ID:	57593
Tank Status:	In Service
Tank Type:	Equivalent technology
Pipe Model:	Not reported

Equipment Records:

C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
H99 - Tank Leak Detection - Other
L08 - Piping Leak Detection - Tank Top Sump
I01 - Overfill - Float Vent Valve
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
E04 - Piping Secondary Containment - Double-Walled (Underground)
B04 - Tank External Protection - Fiberglass

Install Date:	12/01/1998
Capacity Gallons:	10000
Tightness Test Method:	21

GETTY SERVICE STATION #341 (Continued) **U000403440**

Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Equivalent technology
Date Test: 11/01/2004
Registered: True
Modified By: dxliving
Last Modified: 05/06/2009

Site ID: 4669

Tank Number: 001-A
Tank ID: 57594
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

F00 - Pipe External Protection - None
B07 - Tank External Protection - Retrofitted Sacrificial Anode
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
I00 - Overfill - None

Install Date: 07/01/1975
Capacity Gallons: 4000
Tightness Test Method: 14
Next Test Date: Not reported
Date Tank Closed: 11/01/1998
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 06/01/1994
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 4669

Tank Number: 002
Tank ID: 57595
Tank Status: In Service
Tank Type: Equivalent technology
Pipe Model: Not reported

Equipment Records:

C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
H99 - Tank Leak Detection - Other
L08 - Piping Leak Detection - Tank Top Sump
I01 - Overfill - Float Vent Valve
F04 - Pipe External Protection - Fiberglass

GETTY SERVICE STATION #341 (Continued) **U000403440**

K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
E04 - Piping Secondary Containment - Double-Walled (Underground)
B04 - Tank External Protection - Fiberglass

Install Date: 12/01/1998
Capacity Gallons: 10000
Tightness Test Method: 21
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Equivalent technology
Date Test: 11/01/2004
Registered: True
Modified By: dxliving
Last Modified: 05/06/2009

Site ID: 4669

Tank Number: 002-A
Tank ID: 57596
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
F07 - Pipe External Protection - Retrofitted Sacrificial Anode
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
I00 - Overfill - None

Install Date: 07/01/1975
Capacity Gallons: 4000
Tightness Test Method: 14
Next Test Date: Not reported
Date Tank Closed: 11/01/1998
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 06/01/1994
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 4669

Tank Number: 003
Tank ID: 19323
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None

GETTY SERVICE STATION #341 (Continued) **U000403440**

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
B00 - Tank External Protection - None
I00 - Overfill - None

Install Date:	11/01/1998
Capacity Gallons:	4000
Tightness Test Method:	14
Next Test Date:	Not reported
Date Tank Closed:	11/01/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	06/01/1994
Registered:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004

HIST UST:

PBS Number:	2-151270
SPDES Number:	Not reported
Emergency Contact:	EDWARD F. WALDRON
Emergency Telephone:	(718) 729-6500
Operator:	LUIS OCHOTORENA
Operator Telephone:	(212) 645-7846
Owner Name:	LEEMILTS PETROLEUM INC
Owner Address:	125 JERICHO TURNPIKE
Owner City,St,Zip:	JERICHO, NY 11753
Owner Telephone:	(516) 338-6000
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	GETTY PETROLEUM CORP
Mailing Address:	3023 GREEN POINT AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Contact:	Not reported
Mailing Telephone:	(718) 729-6500
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	239 10TH AVE
SWIS ID:	6201
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	07/06/2000
Expiration Date:	08/26/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	20000
FAMT:	True
Facility Screen:	Minor Data Missing

GETTY SERVICE STATION #341 (Continued) **U000403440**

Owner Screen:	Minor Data Missing
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	62
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	19981101
Capacity (gals):	10000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Fiberglass reinforced plastic [FRP]
Tank Internal:	Fiberglass Liner (FRP)
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	Fiberglass Liner (FRP)
Pipe External:	Fiberglass
Second Containment:	Vault (w/access)
Leak Detection:	Electronic
Overfill Prot:	High Level Alarm, Catch Basin
Dispenser:	Submersible
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19750701
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	06/01/1994
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	11/01/1998

GETTY SERVICE STATION #341 (Continued) **U000403440**

Test Method: Tankology [Vacutect]
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 002
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19750701
Capacity (gals): 4000
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: Rubber Liner
Pipe External: 22
Second Containment: Diking
Leak Detection: None
Overfill Prot: None
Dispenser: 0
Date Tested: 06/01/1994
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 11/01/1998
Test Method: Tankology [Vacutect]
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 002
Tank Location: UNDERGROUND
Tank Status: Temporarily Out Of Service
Install Date: 19981101
Capacity (gals): 10000
Product Stored: UNLEADED GASOLINE
Tank Type: Fiberglass reinforced plastic [FRP]
Tank Internal: Fiberglass Liner (FRP)
Tank External: Fiberglass
Pipe Location: Underground
Pipe Type: STAINLESS STEEL ALLOY
Pipe Internal: Fiberglass Liner (FRP)
Pipe External: Fiberglass
Second Containment: Vault (w/access)
Leak Detection: Electronic
Overfill Prot: High Level Alarm, Catch Basin
Dispenser: Submersible
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True

GETTY SERVICE STATION #341 (Continued) **U000403440**

Lat/long: Not reported

Tank Id: 003
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19981101
Capacity (gals): 4000
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: Diking
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 06/01/1994
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 11/01/1998
Test Method: Tankology [Vacutect]
Deleted: False
Updated: True
Lat/long: Not reported

A4 **239 10TH AVENUE/GETTY** **NY HIST LTANKS** **S100167595**
Target **239 10TH AVENUE** **N/A**
Property **NEW YORK CITY, NY**

Site 4 of 23 in cluster A

Actual:
12 ft.

HIST LTANKS:
Region of Spill: 2
Spill Number: 8806160
Spill Date: 10/20/1988
Spill Time: 15:00
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Gas Station
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 07/29/94
Cleanup Ceased: 07/29/94
Cleanup Meets Standard: True
Investigator: SULLIVAN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported

239 10TH AVENUE/GETTY (Continued) **S100167595**

Reported to Department Date: 10/21/88
Reported to Department Time: 08:41
SWIS: 62
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: 2-151270
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 12/05/88
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 08/01/94
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 08/01/94: SEE EPS LETTER DATED 7/29/94 CROSS REFERENCE TO SPILL 8806159.
Spill Cause: 2) 4K TANKS FAILED.

A5
Target Property **239 10TH AVE**
NEW YORK, NY 10001

EDR US Hist Auto Stat **1015352257**
N/A

Site 5 of 23 in cluster A

Actual:
12 ft.

EDR Historical Auto Stations:

Name:	POWER TEST GAS STATION
Year:	1999
Address:	239 10TH AVE
Name:	POWER TEST GAS STATION
Year:	2000
Address:	239 10TH AVE
Name:	POWER TEST GAS STATION
Year:	2001
Address:	239 10TH AVE
Name:	POWER TEST GAS STATION
Year:	2002
Address:	239 10TH AVE
Name:	S & J PETROLEUM
Year:	2003
Address:	239 10TH AVE
Name:	SRJ PETROLEUM
Year:	2004
Address:	239 10TH AVE
Name:	A & R PETROLEUM INC
Year:	2010
Address:	239 10TH AVE

A6
Target Property **GETTY GAS #341**
239 10TH AVE
MANHATTAN, NY

NY Spills **S104503705**
NY Hist Spills **N/A**

Site 6 of 23 in cluster A

Actual:
12 ft.

SPILLS:

Facility ID:	9707190
DER Facility ID:	306937
Facility Type:	ER
Site ID:	241278
DEC Region:	2
Spill Number:	9707190
Spill Date:	9/17/1997
Spill Cause:	Equipment Failure
Spill Class:	Known release that creates potential for fire or hazard. (Highly Improbable)
Spill Closed Date:	Not Closed
SWIS:	3101
Investigator:	KGHALE
Referred To:	RAP DUE 2/2008
Reported to Dept:	9/17/1997
CID:	323
Water Affected:	Not reported
Spill Source:	Gasoline Station

GETTY GAS #341 (Continued) **S104503705**

Spill Notifier:	Other
Cleanup Ceased:	8/10/2006
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	1
Date Entered In Computer:	9/17/1997
Spill Record Last Update:	2/10/2012
Spiller Name:	KEVIN SHEA
Spiller Company:	GETTY PROPERTIES
Spiller Address:	125 JERICHO TURNPIKE
Spiller City,St,Zip:	JERICHO, NY 11753
Spiller Company:	001
Contact Name:	LOUIS OCHOTORENA
Contact Phone:	(718) 729-6500
DEC Memo:	3/14/03: REASSIGNED FROM ROMMEL TO VOUGHT.11/20/2003-Vought-See closed spill #'s 9830017 and 0211201 at same location.11/24/2004: Sent letter to Getty requesting an investigatory work plan and environmental site history. (Harrington)1/13/2005: Approved SI work plan (installation of four (4) monitoring wells). Harrington3/24/2005: Project transferred to Vought - Region 2. (Harrington)08/31/2005 - Feng - Project transferred from Vought to Feng.10/18/2005 - Feng - Spill#: 98-10383 has been consolidated into this spill#.10/25/2005 - Feng - Subsurface Investigation Report, dated 5/2/2005. on 4/12-13/2005, Tyree installed 3 off-site monitoring wells in sidewalk adjacent to 10th Ave and 1 in sidewalk adjacent to West 24th St as per the Work Plan approved by Harrington on 1/23/2005. Highly contaminated soil found in B-5(4'-8'), B-6(6'-8'), and B-7(6'-8'). however, goundwater was just slight high contaminated in B-6. 10/25/2005 - Feng - Quarterly Monitoring Report, 5/2005 - 7/2005. 7 monitoring wells onsite. groundwater flows to south at depth of 7.04' to 8.54' below grade. W-1, decreasing, 146ppb BTEX and 37ppb MTBE. W-2, decreasing, 274ppb BTEX and 104ppb MTBE. W-3, decreasing and fluctuating, 1,649ppb BTEX and 461ppb MTBE. W-4, 1,753ppb BTEX and no MTBE. W-5, 9,975ppb BTEX and <46.0ppb MTBE. W-6, 4,718ppb BTEX and 58ppb MTBE. W-7, 18,230ppb BTEX and 16,700ppb MTBE.11/2/2005 - Feng - Quarterly Monitoring Report, 8/2005 - 10/2005. 7 monitoring wells onsite. groundwater flows to south at depth of 7.21' to 8.71' below grade. W-1, decreasing, 12ppb BTEX and 13ppb MTBE. W-2, decreasing, 7ppb BTEX and 45ppb MTBE. W-3, decreasing and fluctuating, 2,518ppb BTEX and 262ppb MTBE. W-4, decreasing, 1,418ppb BTEX and no MTBE. W-5,increasing, 11,608ppb BTEX and 74ppb MTBE. W-6, 4,336ppb BTEX and MTBE MDL. W-7, sharply decreased, 2,461ppb BTEX and 211ppb MTBE.11/18/2005 - Feng - STIP sent to Getty Properties with request of 1) wells installation of one (1) downgradient of W-2 and W-7, one (1) east to W-5 and one (1) southeast to W-6. 2) surrounding properties sketch. CC to Tyree and Delta. STIP due 12/19/2005.2/17/2006 - Feng - on 2/9/2006 Received signed STIP with modified CAP. (RJF)2/27/2006 - Feng - Quarterly Monitoring Report, 11/2005 - 1/2006. The site is an active Lukoil gasoline station/convenience store. Groundwater flows to south at the depth of 7.06' to 8.87' below grade. 7 monitoring wells onsite. W-1, 254 ppb BTEX, 34 ppb MTBE. W-2, increased and 343 ppb BTEX, increased and 231 ppb MTBE. W-3, decreased and 1,644 ppb BTEX, decreased and 62 ppb MTBE. W-4, decreased and 1,140 ppb BTEX, MTBE ND. W-5, sharply decreased and 5,170 ppb BTEX, MTBE ND. W-6, decreased and 3,328 ppb

GETTY GAS #341 (Continued) **S104503705**

BTEX, MTBE ND. W-7, decreased and 2,012 ppb BTEX, decreased and 127 ppb MTBE. (RJF)4/6/2006 - Feng - Stip cancelled due to dropping in concentration. Wait for next quarter monitoring report. (RJF)5/16/2006 - Feng - WorkPlan submitted by Tyree, dated 5/12/2006. Tyree proposed to install 3 offsite monitoring wells. One locate at sidewalk across West 24th Street (P-8), one at sidewalk across southeast corner (P-9), and one at the sidewalk across 10th Ave (P-10). The wells will be constructed of 2" schedule 40 flush joint PVC having 15' of 0.02" slotted screen and 5' of riser. Each wells will be installed 10' into groundwater. The WorkPlan is approved and approval email sent to Joe Rennie. (RJF)6/20/2006 - Feng - Subsurface Investigation Report, dated 6/5/2006. Tyree installed 3 offsite monitoring wells, 20 feet 2-inch PVC. Groundwater encountered at approximately 8 feet below grade. Soil and Groundwater samples were collected (Chain of Custody indicated that), but only soil samples analyticals were presented. PID reading = 0 for depth from 0-20'. Slight VOCs and SVOCs detected in soil but below TAGM 4046. Emailed Joe Rennie for groundwater data. (RJF)6/28/2006 - Feng - Quarterly Monitoring Report, 2/2006 - 4/2006. The site is active Lukoil gasoline station/convenience store. As of sampling and monitoring on 4/12/2006, groundwater flows to south at the depth of 7.92' to 9.41' bg. 7 monitoring wells onsite. W-1, 75 ppb BTEX, 28 ppb MTBE. W-2, 30 ppb BTEX, 291 ppb MTBE. W-3, increased and 8,520 ppb BTEX (1,280 ppb B, 4,280 ppb T, 770 ppb E, 2,190 ppb X), 57 ppb MTBE. W-4, 2,438 ppb BTEX (25 ppb B, 33 ppb T, 1,000 ppb E, 1,380 ppb X), MTBE ND. W-5, 7,969 ppb BTEX (2,320 ppb B, 119 ppb T, 2,190 ppb E, 3,340 ppb X), 102 ppb MTBE. W-6, 2,423 ppb BTEX (322 ppb B, 31 ppb T, 1,010 ppb E, 1,060 ppb X), 19 ppb MTBE. W-7, increased and 22,780 ppb BTEX (6,310 ppb B, 8,870 ppb T, 1,520 ppb E, 6,080 ppb X), increased and 8,350 ppb MTBE. Stipulation Agreement sent to Getty Properties and cc to Tyree and Delta. STIP due 7/24/2006.(RJF)8/16/2006 - Feng - Stipulation Agreement executed on 8/10/2006. (RJF)8/17/2006 - Feng - Quarterly Monitoring Report, 4/2006 - 7/2006, by Tyree. The site is active Lukoil gasoline station/convenience store. Groundwater flows to south at the depth of 7.38' to 8.87' bg. As of sampling on 7/24/2006, 9 monitoring wells. W-1, 57 ppb BTEX, 8 ppb MTBE. W-2, 13 ppb BTEX, 35 ppb MTBE. W-3, 6,862 ppb BTEX (635 ppb B, 3,260 ppb T, 346 ppb E, 2,621 ppb X), 114 ppb MTBE. W-4, 2,047 ppb BTEX, ND MTBE. W-5, 10,968 ppb BTEX (1,440 ppb B, 128 ppb T, 1,940 ppb E, 7,460 ppb X), ND MTBE. W-6, 2,982 ppb BTEX, 23 ppb MTBE. W-7, 24,900 pppb BTEX (6,320 ppb B, 5,590 ppb T, 1,430 ppb E, 11,560 ppb X), 4,700 ppb MTBE. W-8, both ND. W-9, destroyed during sidewalk repair. W-10, both ND. Emailed Rob Szczepanski (Tyree) to approve the delineation of contamination, RAP due 11/17/2006 as per the Stipulation Agreement. (RJF) 10/26/2006 - Feng - The adjacent property will be developed, 245 10th Ave and 502 West 24th Street, E-142-Designation Site of NYCDEP. Called Amy Ma of NYCDEP to inform her about the existing spill in the Getty Station locate 239 10th Ave. (RJF)11/15/2006 - Feng - Quarterly Monitoring Report, 8/2006 - 10/2006, 10/19/2006, by Tyree. Active Lukoil gasoline station/convenience store. Groundwater sampled and gauged 10/16/2006. 9 monitoring wells. DTW 8.31' to 9.83' bg. Flow direction south. No LNAPL. BTEX range ND to 30,410 ppb (MW-7). MTBE range ND to 3,330 ppb (MW-7). (RJF)1/18/2007 - Feng - Getty Properties portfolio meeting with Tyree and Delta. DEC staff has informed Tyree and Delta about the site development at the adjacent property, and the dewatering process may affect the contamination plume. Tyree will contact DEP before the preparation of

GETTY GAS #341 (Continued) **S104503705**

RAP. (RJF)1/23/2007 - Feng - Email Rob S. (Tyree) the contact person info in DEP and the adjecent project info. (RJF)6/6/2007 - Feng - Quarterly Monitoring Report, 11/2006 - 1/2007, 2/2007. Groundwater monitored 1/30/2007. 9 monitoring wells. Active gasoline station. DTW 7.94' to 9.47' bg. Flows southerly. LNAPL in W-7 (0.26'). W-1, 185 ppb BTEX, 163 ppb MTBE. W-2, 9 ppb BTEX, 24 ppb MTBE. W-3, 18,410 ppb BTEX, 102 ppb MTBE. W-4, not accessible. W-5, 10,606 ppb BTEX, 33 ppb MTBE. W-6m 1,953 ppb BTEX, 36 ppb MTBE. W-7, 0.26' of LNAPL. W-8, ND. W-9, destroyed. W-10, 3 ppb BTEX, MTBE ND. (RJF)7/9/2007 - Feng - Quarterly Monitoring Report, 2/2007 - 4/2007, 5/2007. Groundwater sampled 4/30/2007. 9 monitoring wells. DTW 9.06' to 16.76' bg. Flows to south. No LNAPL. W-1, 1,255 ppb BTEX, 129 ppb MTBE. W-2, 1,572 ppb BTEX, 362 ppb MTBE. W-3, Dry. W-4, NA. W-5, dry. W-6, NA. W-7, NA. W-8, ND. W-10, ND. (RJF)11/7/2007 - Feng - Quarterly Monitoring Report, 5/2007 - 7/2007, 8/2007. Groundwater sampled 7/30/2007. 9 monitoring wells were sampled. DTW 8.11' to 9.27' bg. Flows to south. No LNAPL. BTEX range ND to 5,980 ppb. MTBE range ND to 393 ppb. (RJF)11/8/2007 - Feng - Portfolio meeting with Delta and Tyree. Tyree will sample for one more quarter to evaluate the site condition after the dewatering process at the adjacent site. Need to sample MW-4. RAP to be submitted by 2/2008. (RJF)1/28/2008 - Feng - Quarterly Monitoring Report, 8/2007 - 10/2007, 11/2007. Active Lukoil gasoline station/convenience store. Groundwater gauged and sampled 10/23/2007. 9 monitoring wells. DTW 10.05' to 16.37' bg. Flows to south. No LNAPL. BTEX range ND to 5,131 ppb (W-6). MTBE range ND to 252 ppb (W-3). (RJF)3/19/2008 - Feng - eDoc Quarterly Monitoring Report 1Q2008. (RJF)3/20/2008 - Feng - Email to Tyree and Delta for RAP status. (RJF)3/24/2008 - Feng - Quarterly Monitoring Report, 11/2007 - 1/2008, 2/2008. Active Lukoil gasoline station/convenience store. Groundwater was gauged and sampled 1/14/2008. 9 monitoring wells. No DTW available due to water probe broke onsite. Flows to south. No LNAPL. BTEX range ND to 4,203 ppb (W-1). MTBE range ND to 412 ppb (W-2). (RJF)7/11/2008 - 2Q2008, 2/2008 - 4/2008, 5/2008. Active Lukoil gasoline station/convenience store. Groundwater was gauged and sampled 4/25/2008. 9 monitoring wells. DTW 9.65' to 11.58' bg. Flows to south. No LNAPL. BTEX range ND to 10,765 ppb (W-3). MTBE range ND to 191 ppb (W-3). email Tyree for RAP status. (RJF)9/4/2008 - Getty Properties portfolio meeting with Delta and Tyree. The dewatering that started 4/2007 was stoped 2/2008. MW-4 was not sampled because storage box was on top of that. Wait to see the rebound before the delineation. Possible monitoring wells will be installed between the service building and the tank. (RJF)1/6/2009 - Getty Properties portfolio meeting with Delta and Tyree. Review 2Q2009 quarterly for possbile delineation. (RJF)3/18/2009 - Quarterly Monitoring Report, 5/2008 - 7/2008, 8/2008, by Tyree. Active Lukoil gasoline station convenience store. Groundwater was gauged and sampled 7/22/2008. 9 monitoring wells. NO LNAPL. DTW 9.21' to 10.67' bg. Flows to south. BTEX range ND to 7,530 ppb (W-3). MTBE range ND to 165 ppb (W-3). (RJF)5/6/2009 - Quarterly Monitoring Report, 8/2008 - 10/2008, 11/2008, by Tyree. Active Lukoil gasoline station convenience store. Groundwater was gauged and sampled 10/30/2008. 10 monitoring wells. NO LNAPL. DTW 8.11' to 9.66' bg. flows to south. BTEX range ND to 20,856 ppb (W-7). MTBE range ND to 192 ppb (W-7). (RJF)11/6/2009 - 2Q2009, 4/2009-6/2009, 9/2009, pdf, by Tyree. Active Lukoil gasoline station convenience store. 12 monitoring wells. Groundwater was gauged 4/24/2009, 5/29/2009, 6/19/2009 and 7/9/2009. NO LNAPL. DTW 8.11' to 9.66' bg. Flows to south. Groundwater was sampled 6/19/2009.

GETTY GAS #341 (Continued) **S104503705**

BTEX range ND to 11,198 ppb (W-7). MTBE range ND to 274 ppb (W-2). (RJF)7/9/2010 - Reviewed Investigation Work Plan, dated 6/3/2010, by Tyree. Tyree proposes 2 wells W-11 and W-12 in west of W-7 and north of W-7. Work Plan is approved. Report due 10/2010. 2/8/2012 - Reviewed the Subsurface Investigation Work Plan, dated 5/17/2011, by Tyree. Tyree proposes to install 2 monitoring wells at the sidewalk along West 24th Street. Tyree mentioned that refusals were hit during the previous attempt to install wells as per the 7/2010 approved work plan. 2/10/2012 - Letter sent to Getty approving the work plan. Report due 4/2012. DEC provides comments, 1) sample groundwater and soil for CP-51 list VOCs; 2) conduct site history review to identify the reason why W-5, W-6 and W-7 with elevated BTEX concentration. Notified Getty that the case has been transferred to Central Office. All the future correspondences shall be directed to the new project manager, Kevin Hale. (J. Feng)

Remarks: A LEAK IN THE REMOTE FILL. SOIL WAS REMOVED AND LEAK WAS REPAIRED.ORIGINAL SPILL ASSIGNED TO O'DOWD.

Material:

Site ID:	241278
Operable Unit ID:	1050541
Operable Unit:	01
Material ID:	332768
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Facility ID:	0304434
DER Facility ID:	306937
Facility Type:	ER
Site ID:	241277
DEC Region:	2
Spill Number:	0304434
Spill Date:	7/28/2003
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Date:	8/1/2003

GETTY GAS #341 (Continued) **S104503705**

SWIS:	3101
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	7/28/2003
CID:	281
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/28/2003
Spill Record Last Update:	8/1/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	DAVID MOORE
Contact Phone:	(718) 729-6500
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"7/31/2003-Vought-Called David Moore and no answer. Called Scott Hanley and left message to have Moore or himself retun call to NYSDEC regarding spill cleanup.8/1/2003-Vought-Received call from Phillip DeBlasi (Tyree-631-249-3150). Spill on asphalt and was recovered using speedy dry. Manholes and drains inspected for impact and none was found. Spill closed by Vought.
Remarks:	Above material spilled during fueling at above location by unknown customer.

Material:

Site ID:	241277
Operable Unit ID:	872692
Operable Unit:	01
Material ID:	505295
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	5
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported

GETTY GAS #341 (Continued) **S104503705**

Last Modified: Not reported
Test Method: Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:
Region of Spill: 2
Spill Number: 9707190
Investigator: ROMMEL
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 09/17/1997 15:00
Reported to Dept Date/Time: 09/17/97 16:24
SWIS: 62
Spiller Name: GETTY GAS #341
Spiller Contact: LOUIS OCHOTOIENA
Spiller Phone: (718) 729-6500
Spiller Contact: LOUIS OCHOTOIENA
Spiller Phone: (718) 729-6500
Spiller Address: 239 10TH AVE
Spiller City,St,Zip: MANHATTAN
Spill Cause: Equipment Failure
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 05
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: True
Spill Class: Known release that creates potential for fire or hazard. (Highly Improbable)
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 09/17/97
Date Spill Entered In Computer Data File: Not reported
Update Date: 01/03/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported

GETTY GAS #341 (Continued) **S104503705**

Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: A LEAK IN THE REMOTE FILL. SOIL WAS REMOVED AND LEAK WAS REPAIRED. ORIGINAL SPILL ASSIGNED TO O DOWD.

A7 **10TH AVE. & 24TH STREET** **NY Hist Spills** **S103574747**
Target **239 10TH AVE.** **N/A**
Property **NEW YORK, NY**

Site 7 of 23 in cluster A

Actual:
12 ft.

NY Hist Spills:
Region of Spill: 2
Spill Number: 9830017
Investigator: ROMMEL
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 11/23/1998 15:00
Reported to Dept Date/Time: 11/24/98 10:00
SWIS: 62
Spiller Name: POWERTEST/GETTY 00341
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: 239 10TH AVE
Spiller City,St,Zip: NEW YORK, NY 10011-
Spill Cause: Housekeeping
Reported to Dept: Air
Water Affected: Not reported
Spill Source: 05
Spill Notifier: DEC
PBS Number: 2-151270
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

10TH AVE. & 24TH STREET (Continued) **S103574747**

Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 11/24/98
Date Spill Entered In Computer Data File: 10:28
Update Date: 01/03/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: TANK REMOVING AT THIS SITE. NEIGHBOR CAN NOT TOLERATE THE STRONG GAS SMELL FROM THE STATION. ORIGINAL SPILL ASSIGNED TO O DOWD.

A8
Target
Property

GETTY STATION #341
239 10TH AVE
MANHATTAN, NY

NY Hist Spills **S104506133**
N/A

Site 8 of 23 in cluster A

Actual:
12 ft.

NY Hist Spills:
Region of Spill: 2
Spill Number: 9810383
Investigator: ROMMEL
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 11/07/1998 12:00
Reported to Dept Date/Time: 11/17/98 13:20
SWIS: 62
Spiller Name: GETTY STATION #341
Spiller Contact: Not reported
Spiller Phone: (212) 727-8793
Spiller Phone: (212) 727-8793
Spiller Address: 239 10TH AVE
Spiller City,St,Zip: MANHATTAN, NY
Spill Cause: Unknown
Reported to Dept: On Land

GETTY STATION #341 (Continued) **S104506133**

Water Affected: Not reported
Spill Source: 05
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 11/17/98
Date Spill Entered In Computer Data File: Not reported
Update Date: 01/03/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: CALLER TOOK BORINGS AND JUST RECEIVED RESULTS WHICH INDICATE CONTAMINATION - TANK UPGRADE TO BE DONE ON SITE ORIGINAL SPILL ASSIGNED TO O DOWD.

A9 **239 10TH AVE/MANH/GETTY** **NY LTANKS** **S100167969**
Target **239 10TH AVENUE** **NY HIST LTANKS** **N/A**
Property **NEW YORK CITY, NY**

Site 9 of 23 in cluster A

Actual:
12 ft.

LTANKS:
Site ID: 86010
Spill No: 9005116
Spill Date: 8/8/1990
Spill Cause: Tank Test Failure
Spill Source: Gasoline Station
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.

239 10TH AVE/MANH/GETTY (Continued) **S100167969**

Willing Responsible Party. Corrective action taken.

Spill Closed Dt:	7/16/1992
Facility Addr2:	Not reported
Cleanup Ceased:	7/16/1992
Cleanup Meets Standard:	True
SWIS:	3101
Investigator:	SULLIVAN
Referred To:	Not reported
Reported to Dept:	8/8/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	8/14/1990
Spill Record Last Update:	7/28/1992
Spiller Name:	Not reported
Spiller Company:	GETTY
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	78946
DEC Memo:	Not reported
Remarks:	4K TANK FAILED AN AIR PRESSURE TEST.

Material:

Site ID:	86010
Operable Unit ID:	942717
Operable Unit:	01
Material ID:	436177
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	86010
Spill Tank Test:	1537408
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004

239 10TH AVE/MANH/GETTY (Continued) **S100167969**

Test Method: Unknown

Site ID: 86009
Spill No: 8806160
Spill Date: 10/20/1988
Spill Cause: Tank Test Failure
Spill Source: Gasoline Station
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 7/29/1994
Facility Addr2: Not reported
Cleanup Ceased: 7/29/1994
Cleanup Meets Standard: True
SWIS: 3101
Investigator: SULLIVAN
Referred To: Not reported
Reported to Dept: 10/21/1988
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 12/5/1988
Spill Record Last Update: 8/1/1994
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 78946
DEC Memo: Not reported
Remarks: (2) 4K TANKS FAILED.

Material:
Site ID: 86009
Operable Unit ID: 922990
Operable Unit: 01
Material ID: 454515
Material Code: 0009
Material Name: Gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

239 10TH AVE/MANH/GETTY (Continued) **S100167969**

Site ID:	86009
Spill Tank Test:	1534795
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

HIST LTANKS:

Region of Spill:	2
Spill Number:	9005116
Spill Date:	08/08/1990
Spill Time:	11:00
Spill Cause:	Tank Test Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	07/16/92
Cleanup Ceased:	07/16/92
Cleanup Meets Standard:	True
Investigator:	SULLIVAN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	08/08/90
Reported to Department Time:	15:17
SWIS:	62
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	GETTY
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	(718) 729-6500
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /

239 10TH AVE/MANH/GETTY (Continued) **S100167969**

Date Spill Entered In Computer Data File: 08/14/90
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 07/28/92
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: 4K TANK FAILED AN AIR PRESSURE TEST.

NPL
Region
West
1/4-1/2
1834 ft.

HUDSON RIVER PCBS
NO STREET APPLICABLE
HUDSON RIVER, NY 12801

NPL **1000384273**
CERCLIS **NYD980763841**
RCRA-LQG
US ENG CONTROLS
US INST CONTROL
CONSENT
ROD
FINDS
NY HIST LTANKS
NY Spills
PRP

NPL:
EPA ID: NYD980763841
EPA Region: 02
Federal: N
Final Date: 1984-09-21 00:00:00

Category Details:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-<= 10 Feet
Category Value: 0

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

Site Details:
Site Name: HUDSON RIVER PCBS

A10
SSE
< 1/8
0.010 mi.
54 ft.

470 WEST 24TH ST/MANH
470 WEST 24TH STREET
NEW YORK CITY, NY

Site 10 of 23 in cluster A

NY Spills **S104495259**
NY Hist Spills **N/A**

Relative:
Higher

Actual:
12 ft.

SPILLS:

Facility ID:	9008416
DER Facility ID:	100183
Facility Type:	ER
Site ID:	114914
DEC Region:	2
Spill Number:	9008416
Spill Date:	11/1/1990
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Date:	5/25/1995
SWIS:	3101
Investigator:	WILSON
Referred To:	Not reported
Reported to Dept:	11/1/1990
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	5/25/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/7/1990
Spill Record Last Update:	5/25/1995
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	OWNER INSTALLED NEW FILL LINE PUMP IN OLD FILL CASTLE OIL, SPEEDY DRY APPLIED & PICKED UP.

Material:

Site ID:	114914
Operable Unit ID:	949060
Operable Unit:	01
Material ID:	559265
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

470 WEST 24TH ST/MANH (Continued) **S104495259**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9008416
Investigator:	WILSON
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	11/01/1990 08:00
Reported to Dept Date/Time:	11/01/90 12:49
SWIS:	62
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	(212) 691-0091
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	08
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	05/25/95
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	05/25/95
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	11/07/90
Date Spill Entered In Computer Data File:	Not reported
Update Date:	05/25/95
Is Updated:	False

Tank:

PBS Number:	Not reported

470 WEST 24TH ST/MANH (Continued) **S104495259**

Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 30
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #6 FUEL OIL
Class Type: #6 FUEL OIL
Times Material Entry In File: 2190
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: OWNER INSTALLED NEW FILL LINE PUMP IN OLD FILL CASTLE OIL, SPEEDY DRY APPLIED PICKED UP.

A11 **RESI: LOUDON TERRECE** **NY Spills S105236751**
SSE **470 WEST 24TH ST** **NY Hist Spills N/A**
< 1/8 **MANHATTAN, NY**
0.010 mi.
54 ft. **Site 11 of 23 in cluster A**

Relative:
Higher

Actual:
12 ft.

SPILLS:
Facility ID: 0109374
DER Facility ID: 126049
Facility Type: ER
Site ID: 148076
DEC Region: 2
Spill Number: 0109374
Spill Date: 12/22/2001
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Date: 12/26/2001
SWIS: 3101
Investigator: JMKRIMGO
Referred To: Not reported
Reported to Dept: 12/22/2001
CID: 398
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 12/22/2001
Spill Record Last Update: 12/26/2001
Spiller Name: Not reported
Spiller Company: UNKNOWN

RESI: LOUDON TERRECE (Continued) **S105236751**

Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	JIM CAREY
Contact Phone:	(718) 579-3413
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
Remarks:	problem with gauge on tank. no call back requested. clean up crew on scene.

Material:

Site ID:	148076
Operable Unit ID:	847719
Operable Unit:	01
Material ID:	530578
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	5
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	0109374
Investigator:	KRIMGOLD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	12/22/2001 09:00
Reported to Dept Date/Time:	12/22/01 10:16
SWIS:	62
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Contact:	JIM CAREY
Spiller Phone:	(718) 579-3413
Spiller Address:	Not reported

RESI: LOUDON TERRECE (Continued) **S105236751**

Spiller City,St,Zip:	Not reported
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	09
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/26/01
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	12/22/01
Date Spill Entered In Computer Data File:	Not reported
Update Date:	12/26/01
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	5
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	5
Unkonwn Quantity Recovered:	False
Material:	#6 FUEL OIL
Class Type:	#6 FUEL OIL
Times Material Entry In File:	2190
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	Not reported
Remark:	problem with gauge on tank. no call back requested. clean up crew on scene.

A12
SSE
< 1/8
0.010 mi.
54 ft.

LONDON TERRACE TOWERS-470 W 24TH ST
470 WEST 24TH ST
NEW YORK, NY 10011

Site 12 of 23 in cluster A

FINDS **1005639795**
NY UST **N/A**
NY AST
US AIRS

Relative:
Higher

Actual:
12 ft.

FINDS:

Registry ID:	110001612693

Environmental Interest/Information System

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

UST:

Facility Id:	2-365688
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	2017/10/29
UTM X:	584217.27593999996
UTM Y:	4511262.9423599998

Affiliation Records:

Site Id:	18582
Affiliation Type:	Owner
Company Name:	LONDON TERRACE TOWERS OWNERS, INC.
Contact Type:	COMPLIANCE MANAGER
Contact Name:	PAT PETTWAY-BROWN
Address1:	405 WEST 23RD STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10011
Country Code:	001
Phone:	(212) 370-9200
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	11/29/2012

Site Id:	18582
Affiliation Type:	Mail Contact
Company Name:	DOUGLAS ELLIMAN PROP MGMT
Contact Type:	Not reported
Contact Name:	PAT PETTWAY-BROWN
Address1:	675 THIRD AVENUE
Address2:	5TH FLOOR
City:	NEW YORK
State:	NY
Zip Code:	10017
Country Code:	001

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

Phone:	(212) 350-2846
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/5/2009

Site Id:	18582
Affiliation Type:	On-Site Operator
Company Name:	LONDON TERRACE TOWERS
Contact Type:	Not reported
Contact Name:	EZEKIEL BETANCOURT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 657-4003
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	11/29/2012

Site Id:	18582
Affiliation Type:	Emergency Contact
Company Name:	LONDON TERRACE TOWERS OWNERS, INC.
Contact Type:	Not reported
Contact Name:	EZEKIEL LBETANCOURT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 675-4003
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	11/29/2012

Tank Info:

Site ID:	18582
Tank Number:	001
Tank ID:	30620
Tank Status:	Closed - In Place
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction

Install Date:	12/01/1931
Capacity Gallons:	16000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Registered:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-365688
Program Type:	PBS
UTM X:	584217.27593999996
UTM Y:	4511262.9423599998
Expiration Date:	2017/10/29

Affiliation Records:

Site Id:	18582
Affiliation Type:	Owner
Company Name:	LONDON TERRACE TOWERS OWNERS, INC.
Contact Type:	COMPLIANCE MANAGER
Contact Name:	PAT PETTWAY-BROWN
Address1:	405 WEST 23RD STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10011
Country Code:	001
Phone:	(212) 370-9200
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	11/29/2012

Site Id:	18582
Affiliation Type:	Mail Contact
Company Name:	DOUGLAS ELLIMAN PROP MGMT
Contact Type:	Not reported
Contact Name:	PAT PETTWAY-BROWN
Address1:	675 THIRD AVENUE
Address2:	5TH FLOOR
City:	NEW YORK
State:	NY
Zip Code:	10017
Country Code:	001

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

Phone:	(212) 350-2846
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/5/2009

Site Id:	18582
Affiliation Type:	On-Site Operator
Company Name:	LONDON TERRACE TOWERS
Contact Type:	Not reported
Contact Name:	EZEKIEL BETANCOURT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 657-4003
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	11/29/2012

Site Id:	18582
Affiliation Type:	Emergency Contact
Company Name:	LONDON TERRACE TOWERS OWNERS, INC.
Contact Type:	Not reported
Contact Name:	EZEKIEL LBETANCOURT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 675-4003
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	11/29/2012

Tank Info:

Tank Number:	002
Tank Id:	64704

Equipment Records:

C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

J02 - Dispenser - Suction
L09 - Piping Leak Detection - Exempt Suction Piping
G03 - Tank Secondary Containment - Vault (w/o access)
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	11/01/1999
Capacity Gallons:	9000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KAKYER
Last Modified:	11/29/2012

AIRS (AFS):

Compliance and Violation Data Major Sources:

EPA plant ID:	110001612693
Plant name:	LONDON TERRACE TOWERS-470 W 24TH ST
Plant address:	470 W 24TH ST NEW YORK, NY 10011
County:	NEW YORK
Region code:	02
Dunn & Bradst #:	Not reported
Air quality cntrl region:	043
Sic code:	6513
Sic code desc:	Not reported
North Am. industrial classf:	531110
NAIC code description:	Lessors of Residential Buildings and Dwellings
Default compliance status:	MEETING COMPLIANCE SCHEDULE
Default classification:	POTENTIAL EMISSIONS ARE BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS IF AND ONLY IF THE SOURCE COMPLIES WITH FEDERALLY ENFORCEABLE REGULATIONS OR LIMITATIONS.
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Compliance and Enforcement Major Issues:

Air program:	SIP SOURCE
National action type:	STATE CONDUCTED PCE/ ON-SITE
Date achieved:	021127
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	STATE CONDUCTED FCE / ON-SITE
Date achieved:	030710
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	PCE/OFF-SITE
Date achieved:	050130
Penalty amount:	Not reported

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

Air program: SIP SOURCE
National action type: NXXXXX
Date achieved: 050802
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: PCE/OFF-SITE
Date achieved: 050901
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: NXXXXX
Date achieved: 051212
Penalty amount: 000002500

Air program: SIP SOURCE
National action type: PCE/OFF-SITE
Date achieved: 060131
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: PCE/OFF-SITE
Date achieved: 070130
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: PCE/OFF-SITE
Date achieved: 080130
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED PCE/ ON-SITE
Date achieved: 080605
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: NXXXXX
Date achieved: 080805
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 080806
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: NXXXXX
Date achieved: 080930
Penalty amount: 000005000

Air program: SIP SOURCE
National action type: STATE CONDUCTED PCE/ ON-SITE
Date achieved: 990922
Penalty amount: 000000000

Historical Compliance Minor Sources:
State compliance status: MEETING COMPLIANCE SCHEDULE

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

Hist compliance date: 0904
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1001
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1002
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1003
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1004
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1101
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1102
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1103
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1104
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1201
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1202
Air prog code hist file: 0

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1203
Air prog code hist file: 0

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 0904
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 0904
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 0904

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1001
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1001
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1001
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1002
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1002
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1002
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1003
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1003
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1003
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1004
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1004
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1004
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: 9

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

LONDON TERRACE TOWERS-470 W 24TH ST (Continued) **1005639795**

Hist compliance date: 1202
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: V

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: 7

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: 9

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: V

A13
SSE
< 1/8
0.010 mi.
54 ft.

Relative:
Higher

Actual:
12 ft.

LONDON TERRACE TOWERS **NY HIST UST** **U001839193**
470 WEST 24 STREET **N/A**
NEW YORK, NY 10011

Site 13 of 23 in cluster A

HIST UST:
PBS Number: 2-365688
SPDES Number: Not reported
Emergency Contact: BILL MURPHY
Emergency Telephone: (212) 675-4003
Operator: BILL MURPHY
Operator Telephone: (212) 675-4003
Owner Name: LONDON TERRACE TOWERS OWNERS,INC.
Owner Address: 405 WEST 23RD STREET
Owner City,St,Zip: NEW YORK, NY 10011
Owner Telephone: (212) 370-9200
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mailing Name: 470 WEST 24TH STREET
Mailing Address: C/O INSIGNIA RESIDENTIAL GROUP
Mailing Address 2: 909 THIRD AVENUE, 10TH FLOOR
Mailing City,St,Zip: NEW YORK, NY 10022
Mailing Contact: PAT PETTWAY-BROWN
Mailing Telephone: (212) 350-2846
Owner Mark: First Owner
Facility Status: 1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2: 470 WEST 24 STREET
SWIS ID: 6201
Old PBS Number: Not reported
Facility Type: APARTMENT BUILDING
Inspected Date: Not reported
Inspector: Not reported
Inspection Result: Not reported
Federal ID: Not reported
Certification Flag: False

LONDON TERRACE TOWERS (Continued) **U001839193**

Certification Date:	10/10/1997
Expiration Date:	10/29/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	16000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	62
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19311201
Capacity (gals):	16000
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

A14
East
< 1/8
0.011 mi.
59 ft.

246 10TH AVENUE
246 10TH AVENUE
MANHATTAN, NY

NY Spills **S102148924**
NY Hist Spills **N/A**

Site 14 of 23 in cluster A

Relative:
Higher

Actual:
13 ft.

SPILLS:

Facility ID:	9410103
DER Facility ID:	201855
Facility Type:	ER
Site ID:	245813
DEC Region:	2
Spill Number:	9410103
Spill Date:	10/28/1994
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response.

246 10TH AVENUE (Continued) **S102148924**

	Willing Responsible Party. Corrective action taken.
Spill Closed Date:	10/28/1994
SWIS:	3101
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	10/28/1994
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	10/28/1994
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/5/1994
Spill Record Last Update:	9/5/2008
Spiller Name:	Not reported
Spiller Company:	JAMES OCONNELL-RESIDENT
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
Remarks:	NOZZLE LIGHT OPEN ON TRUCK-CONTAINE ON ROAD PAVEMENT-CREW EN ROUTE.

Material:

Site ID:	245813
Operable Unit ID:	1004038
Operable Unit:	01
Material ID:	375973
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

246 10TH AVENUE (Continued) **S102148924**

NY Hist Spills:

Region of Spill:	2
Spill Number:	9410103
Investigator:	MARTINKAT
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	10/28/1994 12:00
Reported to Dept Date/Time:	10/28/94 12:03
SWIS:	62
Spiller Name:	JAMES OCONNELL-RESIDENT
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	12
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	10/28/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/28/94
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	12/05/94
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	2
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL

246 10TH AVENUE (Continued) **S102148924**

Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	Not reported
Remark:	NOZZLE LIGHT OPEN ON TRUCK-CONTAINE ON ROAD PAVEMENT-CREW EN ROUTE.

A15 **CONSOLIDATED EDISON** **NY MANIFEST** **1009243145**
SSE **24 ST & 10 AVE MH43113** **N/A**
< 1/8 **NEW YORK, NY 10002**
0.012 mi.
64 ft. **Site 15 of 23 in cluster A**

Relative:
Higher

Actual:
13 ft.

NY MANIFEST:

EPA ID:	NYP004124988
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	NYE0639369
Manifest Status:	Not reported
Trans1 State ID:	46107JM
Trans2 State ID:	Not reported
Generator Ship Date:	09/24/2004
Trans1 Recv Date:	09/24/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/26/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004124988
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	02891
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2004

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HOBOKEN CITY	1000202017	ALBEE SERVICES INC	410 8TH ST	07030	CERCLIS-NFRAP,AIRS
HOBOKEN	1000242264	STAHL SOAP CORP	1413 WILLOW AVE	07030	FINDS,MANIFEST,MANIFEST,FINAN(
HOBOKEN CITY	1000333062	HOBOKEN TANK LINES INC	457 12TH ST	07030	FINDS,RCRA-NLR,HWS,UST,BROWN
HOBOKEN CITY	1000538837	FERGUSON PROPELLER INC	1132 CLINTON ST	07030	BROWNFIELDS,UST,ENG
					CONTROLS,VCP,INST CONTROL,HV
NEW YORK	1004761308	NYCDEP TUNNEL 1 DIST CHAMBER	W 25TH ST S BETW 5TH AVE &	10010	FINDS,RCRA-NLR
FREEPORT	1007205959	VERIZON NEW YORK INC	37 GUY LOMBARDO & SUNRISE HWY	10016	RCRA-NLR
FREEPORT	1007252448	VERIZON NEW YORK INC	37 GUY LOMBARDO & SUNRISE HWY	10016	FINDS,MANIFEST
NEW YORK	1009238433	CONSOLIDATED EDISON	10819-RONALDS AVE & KINGS HWY	10003	MANIFEST
NEW YORK	1009238515	CONSOLIDATED EDISON	MH10820-NEW HWY & MAIN ST	10001	MANIFEST
NEW YORK	A100364834	WEST 30TH ST. RECYCLING FACILITY (	WEST 30TH ST. & WEST SIDE HWY	10001	AST
NEW YORK	S105912830	NYC DOS WEST 30TH STREET RECYCLING	WEST 30TH STREET & WEST SIDE H	10001	LF
PARAMUS	S106590250	PARAMUS CAR WASH,TWIN OAKS DINER &	350 RTE 17 N & POWERS DR	10019	VCP
PARAMUS	S108065423	THE CONTAINER STORE	350 RTE 17 N & 15 POWERS DR	10019	VCP
NEW YORK	S109064422	BELL ATLANTIC NY	30TH ST & WESTSIDE HWY SE MANH		MANIFEST
NEW YORK	S109064446	BELL ATLANTIC NY	W 31ST ST & WESTSIDE HWY MANHL		MANIFEST
NEW YORK	S109584950	VERIZON NEW YORK INC. MANHOLE	ROUTE 110 E/S	10016	MANIFEST
NEW YORK	S109942993	59TH GENERATION STATION	59TH ST OFF THE WEST SIDE HIGH		SPILLS
NEW YORK	U003241876	SUNOCO STATION (CAVANT)	14TH STREET & WEST SIDE HIGHWA	10014	HIST UST
HOBOKEN CITY	U003404868	MUNICIPAL GARAGE	256 OBSERVER HWY	07030	BROWNFIELDS,UST,INST CONTROL
NEW YORK	U004078196	SUNOCO STATION (CAVANT)	14TH STREET & WEST SIDE HIGHWA	10014	AST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites
A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens
Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

NY SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/12/2012
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

NJ SHWS: Known Contaminated Sites in New Jersey

The Known Contaminated Sites in New Jersey includes sites under the purview of the Site Remediation Program which have contamination present at levels greater than the applicable cleanup criteria for soil and/or groundwater standards. The sites appearing in Known Contaminated Sites in New Jersey are classified as either active, where the site is assigned to a specific remedial program area, or pending, where the site is awaiting assignment to a specific remedial program area. Sites where no further action (NFA) designation has been given are not included in this report unless there are other areas of identified contamination which have not been remediated. This report includes sites being remediated under all of the various regulatory programs administered by the Site Remediation Program such as: Federal Superfund Program, Federal Resource Conservation and Recovery Act (RCRA), New Jersey's Industrial Site Recovery Act (ISRA), New Jersey's Underground Storage of Hazardous Substances Act, New Jersey's Spill Compensation and Control Act, New Jersey's Solid Waste Management Act, New Jersey's Water Pollution Control Act.

Date of Government Version: 04/17/2012
Date Data Arrived at EDR: 05/31/2012
Date Made Active in Reports: 06/27/2012
Number of Days to Update: 27

Source: New Jersey Department of Environmental Protection
Telephone: 609-292-8761
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

NY VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 05/01/2012
Date Data Arrived at EDR: 05/23/2012
Date Made Active in Reports: 07/03/2012
Number of Days to Update: 41

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

NY SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/07/2013
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

NJ SWF/LF: Solid Waste Facility Directory

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 12/07/2012
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 609-984-6741
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 01/08/2013
Number of Days to Update: 49

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

NY HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

NY TANKS: Storage Tank Faciliy Listing
This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 01/02/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

NY UST: Petroleum Bulk Storage (PBS) Database
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/02/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: No Update Planned

NJ UST: Underground Storage Tank Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 47

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY CBS UST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

NY MOSF UST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: Varies

NY AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/02/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: No Update Planned

NY CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

NY MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

NY MOSF: Major Oil Storage Facility Site Listing
These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/02/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

NY CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/02/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

NY ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/12/2012
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

NJ ENG CONTROLS: Declaration Environmental Restriction/Deed Notice Sites

Legal Document that restricts the use of contaminated property; holds owner(s) to the regulatory/statutory requirements for cleanup.

Date of Government Version: 12/04/2012
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

NY INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/12/2012
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

NJ INST CONTROL: Classification Exception Area Sites

A Classification Exception Area is an institutional control providing notice that ground water contamination exists in a particular location above State standards.

Date of Government Version: 12/04/2012
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

NY RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 02/11/2011
Number of Days to Update: 50

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

NY VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/12/2012
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Semi-Annually

NJ VCP: Voluntary Cleanup Program Sites

Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.

Date of Government Version: 10/18/2010
Date Data Arrived at EDR: 11/22/2010
Date Made Active in Reports: 01/07/2011
Number of Days to Update: 46

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

NY ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/12/2012
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

NY BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/12/2012
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Semi-Annually

NJ BROWNFIELDS: Brownfields Database
Brownfields are identified as former or current commercial or industrial use sites that are presently vacant or underutilized, on which there is suspected to have been a discharge of a contamination to the soil or groundwater at concentrations greater than applicable cleanup criteria.

Date of Government Version: 09/19/2012
Date Data Arrived at EDR: 09/21/2012
Date Made Active in Reports: 10/26/2012
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 609-292-1251
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 02/14/2013
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

NY SWRCY: Registered Recycling Facility List
A listing of recycling facilities.

Date of Government Version: 01/07/2013
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

NY SWTIRE: Registered Waste Tire Storage & Facility List
A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 01/25/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

NJ SWRCY: Approved Class B Recycling Facilities
"Class B recyclable material" means a source separated recyclable material which is subject to Department approval prior to receipt, storage, processing or transfer at a recycling center in accordance with N.J.S.A. 13:1E-99.34b.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 12/07/2012
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 609-984-6650
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Quarterly

NY DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/14/2012
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

NY HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

NY HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

NY LIENS: Spill Liens Information

Lien information from the Oil Spill Fund.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/12/2012
Number of Days to Update: 22

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

NJ LIENS: Environmental LIENS

A listing of properties with environmental liens. The listing includes sites from the Site Remediation & Waste Management Program Sites where the Department has placed either a 1st Priority or Regular Spill Fund Lien against. 1st Priority Type Lien - a lien placed against the property where the discharged occurred providing that the owners of the property have some responsibility towards the discharge. First Priority Lien is superior to other types of liens. Non-Priority (Regular) Type Lien - a lien placed against the Responsible Party & their revenues and all real and personal property, other than the real property comprising the location of the discharge.

Date of Government Version: 11/07/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 47

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

NY SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 01/08/2013
Number of Days to Update: 49

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

NY HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Biennially

NY HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 01/09/2009
Date Data Arrived at EDR: 02/25/2009
Date Made Active in Reports: 03/11/2009
Number of Days to Update: 14

Source: Department of Environmental Protection
Telephone: 609-292-0407
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 12/11/2012
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

NY DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 06/20/2012
Date Data Arrived at EDR: 07/16/2012
Date Made Active in Reports: 09/06/2012
Number of Days to Update: 52

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 12/13/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Varies

NJ DRYCLEANERS: Drycleaner List

A listing of registered drycleaners.

Date of Government Version: 11/29/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 12/07/2012
Number of Days to Update: 7

Source: Department of Environmental Protection
Telephone: 609-292-2795
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

NY SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 10/23/2012
Date Data Arrived at EDR: 10/24/2012
Date Made Active in Reports: 11/09/2012
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: No Update Planned

NJPDES: New Jersey Pollutant Discharge Elimination System Dischargers

The NJPDES contains the names, addresses and other information of all permitted New Jersey Pollutant Discharge Elimination Sytem dischargers.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 12/07/2012
Number of Days to Update: 18

Source: Department of Environmental Protection
Telephone: 609-984-4428
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

NY AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 62

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

NY E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 10/11/2012
Date Data Arrived at EDR: 11/01/2012
Date Made Active in Reports: 11/09/2012
Number of Days to Update: 8

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 12/26/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

NY COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 01/08/2013
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

NY Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 01/08/2013
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 01/21/2013
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NY Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/31/2008
Date Data Arrived at EDR: 11/25/2008
Date Made Active in Reports: 12/11/2008
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: N/A

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

NJ COAL ASH: Coal Ash Listing

Coal combustion survey ash listing.

Date of Government Version: 05/10/2010
Date Data Arrived at EDR: 05/12/2010
Date Made Active in Reports: 06/28/2010
Number of Days to Update: 47

Source: Department of Environmental Protection
Telephone: 609-984-6985
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

NJ Financial Assurance: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 11/07/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 55

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 12/02/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 27

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 27

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: No Update Planned

Storage Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Registered Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: No Update Planned

Storage Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database

A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 10/11/2012
Date Data Arrived at EDR: 10/12/2012
Date Made Active in Reports: 11/14/2012
Number of Days to Update: 33

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database

A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 10/11/2012
Date Data Arrived at EDR: 10/12/2012
Date Made Active in Reports: 11/14/2012
Number of Days to Update: 33

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database

A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

Storage Tank Database

A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

WESTCHESTER COUNTY:

Listing of Storage Tanks

A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/12/2012
Number of Days to Update: 22

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Listing of Storage Tanks

A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 12/12/2012
Number of Days to Update: 22

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 01/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 11/16/2012
Date Data Arrived at EDR: 11/29/2012
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/13/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

M9245
239-243 10TH AVENUE
NEW YORK, NY 10001

TARGET PROPERTY COORDINATES

Latitude (North):	40.7485 - 40° 44' 54.60"
Longitude (West):	74.0038 - 74° 0' 13.68"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	584102.5
UTM Y (Meters):	4511104.5
Elevation:	12 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981
North Map:	40074-G1 WEEHAWKEN, NJ NY
Most Recent Revision:	1995
Northeast Map:	40073-G8 CENTRAL PARK, NY NJ
Most Recent Revision:	1995
East Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

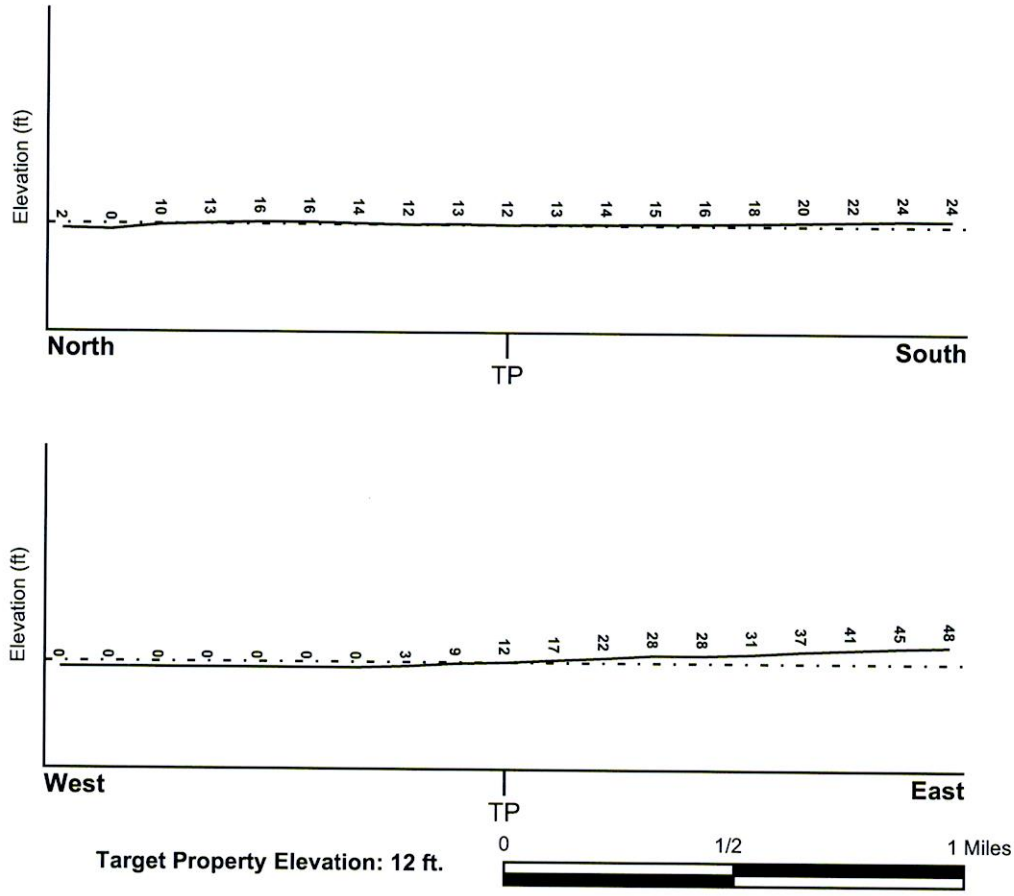
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
NEW YORK, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	3604970038B - FEMA Q3 Flood data
Additional Panels in search area:	3604970031B - FEMA Q3 Flood data 3604970030B - FEMA Q3 Flood data 3604970039B - FEMA Q3 Flood data 3604970046B - FEMA Q3 Flood data 3604970047B - FEMA Q3 Flood data 34017C - FEMA DFIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
JERSEY CITY	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/4 - 1/2 Mile ENE
Site Name:	MANHATTAN GENERAL MAIL FACILITY
Site EPA ID Number:	NY6180000352
Groundwater Flow Direction:	NOT AVAILABLE.
Inferred Depth to Water:	not available. Saturated layers impacted by salt water intrusion are present in the overburden. It is generally inferred that the depth to the uppermost 'aquifer' is greater than 70 feet at the surface of the bedrock/sediment interface.
Hydraulic Connection:	Detailed hydraulic connection information is not available. Glacial till and outwash deposit sediments overlie the Manhattan Schist, the uppermost bedrock unit at the site. The surface elevation of bedrock decreases to the southwest of the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:	Paleozoic	Category:	Stratified Sequence
System:	Ordovicias		
Series:	Lower Ordovician and Cambrian carbonate rocks		
Code:	OC *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
sandy loam
fine sandy loam

Surficial Soil Types: silt loam
loamy sand
sandy loam
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock
very gravelly - loamy sand
stratified
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS2137230	0 - 1/8 Mile NNW
2	USGS2137232	0 - 1/8 Mile NNE
3	USGS2137236	1/4 - 1/2 Mile NNW
4	USGS2137231	1/4 - 1/2 Mile ENE
A5	USGS2137238	1/4 - 1/2 Mile NNE
A6	USGS2137239	1/4 - 1/2 Mile NNE
7	USGS2137212	1/2 - 1 Mile SSW
8	USGS2137211	1/2 - 1 Mile South
B9	USGS2137242	1/2 - 1 Mile NNE
B10	USGS2137243	1/2 - 1 Mile NNE
11	USGS2137209	1/2 - 1 Mile SSW
C12	USGS2137208	1/2 - 1 Mile SSW
C13	USGS2137207	1/2 - 1 Mile SSW
15	USGS2137247	1/2 - 1 Mile NNE
16	USGS2116755	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
14	NY0022417	1/2 - 1 Mile ENE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

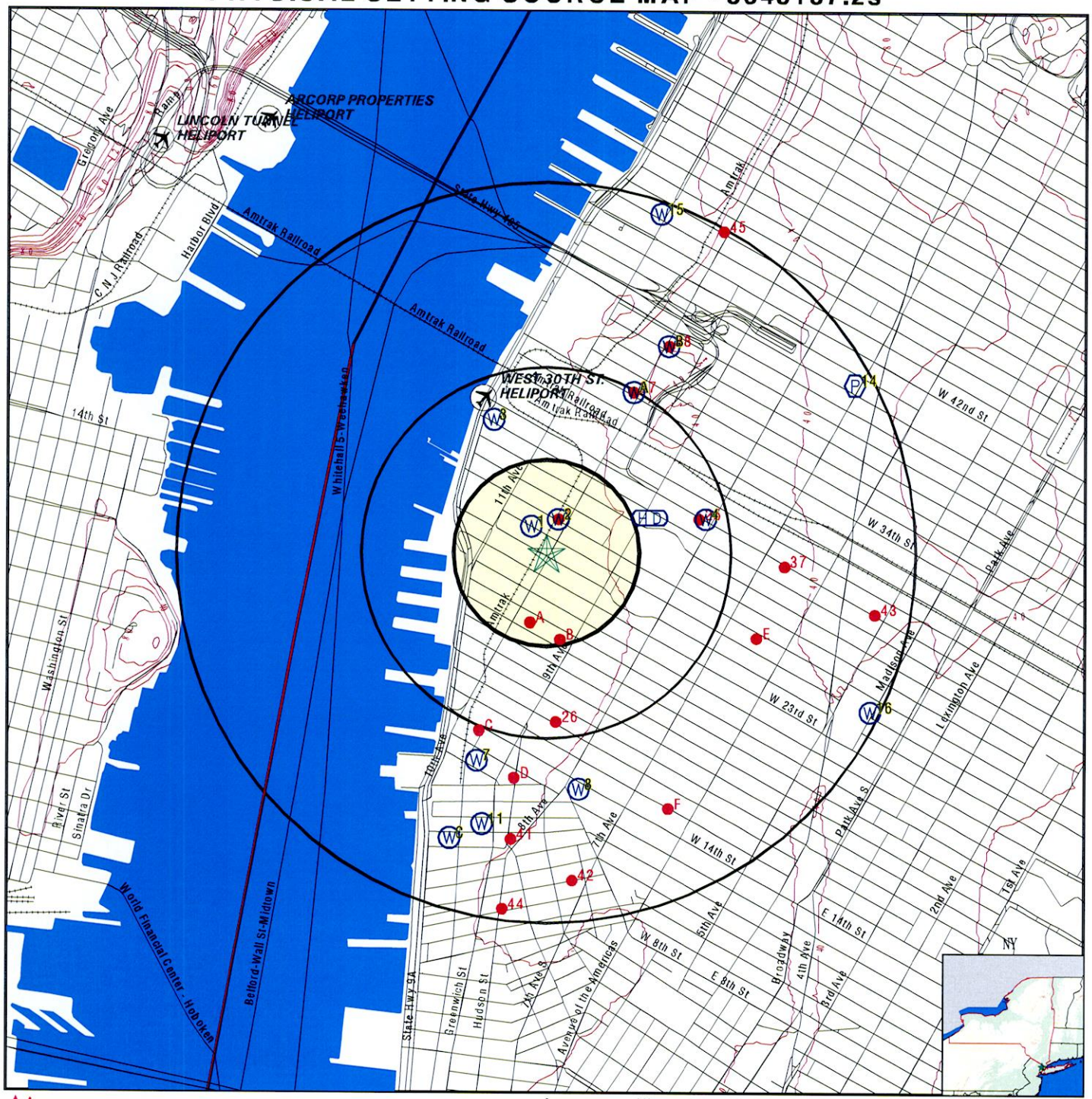
MAP ID	WELL ID	LOCATION FROM TP
1	NYOG70000000152	0 - 1/8 Mile NNE
A2	NYOG70000000148	1/8 - 1/4 Mile SSW
A3	NYOG70000000150	1/8 - 1/4 Mile SSW
A4	NYOG70000000147	1/8 - 1/4 Mile SSW
A5	NYOG70000000143	1/8 - 1/4 Mile South
A6	NYOG70000000146	1/8 - 1/4 Mile SSW
A7	NYOG70000000140	1/8 - 1/4 Mile South
A8	NYOG70000000139	1/8 - 1/4 Mile South
A9	NYOG70000000144	1/8 - 1/4 Mile SSW
A10	NYOG70000000142	1/8 - 1/4 Mile SSW
A11	NYOG70000000141	1/8 - 1/4 Mile SSW
B12	NYOG70000000137	1/8 - 1/4 Mile South
A13	NYOG70000000136	1/8 - 1/4 Mile SSW
B14	NYOG70000000135	1/8 - 1/4 Mile South
A15	NYOG70000000131	1/8 - 1/4 Mile South
B16	NYOG70000000132	1/8 - 1/4 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B17	NYOG70000000127	1/8 - 1/4 Mile South
B18	NYOG70000000129	1/8 - 1/4 Mile SSE
B19	NYOG70000000125	1/8 - 1/4 Mile South
B20	NYOG70000000123	1/8 - 1/4 Mile South
B21	NYOG70000000122	1/8 - 1/4 Mile South
B22	NYOG70000000124	1/8 - 1/4 Mile SSE
B23	NYOG70000000121	1/4 - 1/2 Mile South
B24	NYOG70000000120	1/4 - 1/2 Mile SSE
25	NYOG70000000153	1/4 - 1/2 Mile ENE
26	NYOG70000000115	1/4 - 1/2 Mile South
27	NYOG70000000156	1/4 - 1/2 Mile NNE
C28	NYOG70000000114	1/2 - 1 Mile SSW
C29	NYOG70000000113	1/2 - 1 Mile SSW
C30	NYOG70000000112	1/2 - 1 Mile SSW
D31	NYOG70000000111	1/2 - 1 Mile South
D32	NYOG70000000110	1/2 - 1 Mile South
E33	NYOG70000000126	1/2 - 1 Mile ESE
E34	NYOG70000000130	1/2 - 1 Mile ESE
D35	NYOG70000000109	1/2 - 1 Mile South
D36	NYOG70000000108	1/2 - 1 Mile South
37	NYOG70000000151	1/2 - 1 Mile East
38	NYOG70000000157	1/2 - 1 Mile NNE
F39	NYOG70000000106	1/2 - 1 Mile SSE
F40	NYOG70000000105	1/2 - 1 Mile SSE
41	NYOG70000000103	1/2 - 1 Mile South
42	NYOG70000000099	1/2 - 1 Mile South
43	NYOG70000000149	1/2 - 1 Mile East
44	NYOG70000000098	1/2 - 1 Mile South
45	NYOG70000000160	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 3543187.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

0 1/4 1/2 1 Miles

- Groundwater Flow Direction
- (GI) Indeterminate Groundwater Flow at Location
- (GV) Groundwater Flow Varies at Location
- (HD) Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York NY 10001 LAT/LONG: 40.7485 / 74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY #: 3543187.2s DATE: March 13, 2013 3:39 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NY Radon

Radon Test Results

County	Town	Num Tests	Avg Result	Geo Mean	Max Result
NEW YORK	NYC (BRONX)	91	1.59	0.85	16
NEW YORK	NYC (KINGS)	416	1.93	1.19	28.2
NEW YORK	NYC (NEW YORK)	108	2.15	0.98	49.5
NEW YORK	NYC (QUEENS)	501	1.24	0.77	23.8
NEW YORK	NYC (RICHMOND)	225	1.44	0.76	14.1

Federal EPA Radon Zone for NEW YORK County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

HISTORICAL RESEARCH DOCUMENTATION

M9245
239-243 10TH AVENUE
New York, NY 10001

Inquiry Number: 3543187.3
March 15, 2013

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

3/15/13

Site Name:
M9245
239-243 10TH AVENUE
New York, NY 10001

EDR Inquiry # 3543187.3

Client Name:
Merritt Environmental
77 Arkay Drive
Hauppauge, NY 11788

Contact: KELLI CULLEN

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Merritt Environmental Consulting Corp. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: M9245
Address: 239-243 10TH AVENUE
City, State, Zip: New York, NY 10001
Cross Street:
P.O. # NA
Project: M9245
Certification # 836E-4A3B-8356

Sanborn® Library search results
Certification # 836E-4A3B-8356

Maps Provided:

2005	1995	1987	1950
2004	1994	1985	1930
2003	1993	1982	1928
2002	1992	1980	1911
2001	1991	1979	1899
1996	1988	1976	1890

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

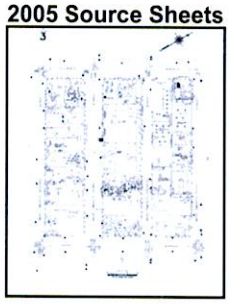
Limited Permission To Make Copies

Merritt Environmental Consulting Corp. (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Sanborn Sheet Thumbnails

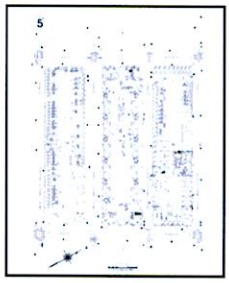
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2005 Source Sheets

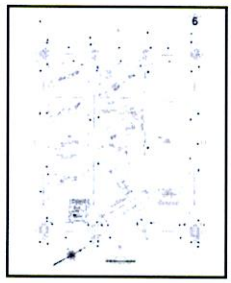


Volume 5S, Sheet 3

Volume 5S, Sheet 4

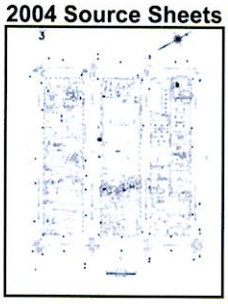


Volume 5S, Sheet 5



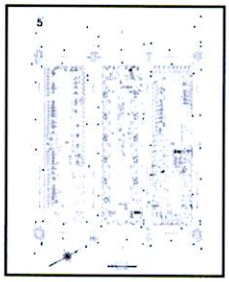
Volume 5S, Sheet 6

2004 Source Sheets

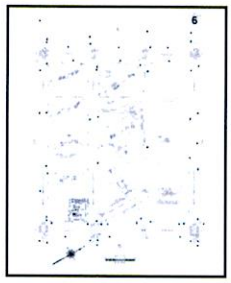


Volume 5S, Sheet 3

Volume 5S, Sheet 4



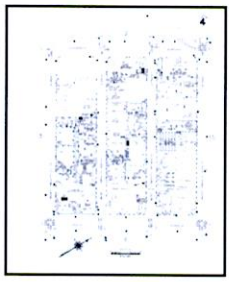
Volume 5S, Sheet 5



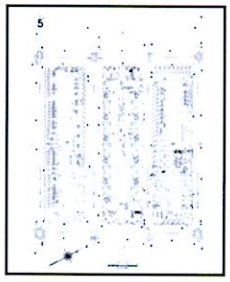
Volume 5S, Sheet 6

2003 Source Sheets

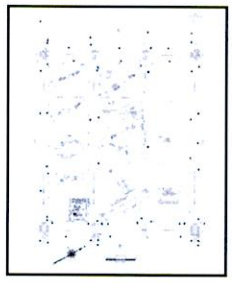
Volume 5S, Sheet 3



Volume 5S, Sheet 4



Volume 5S, Sheet 5



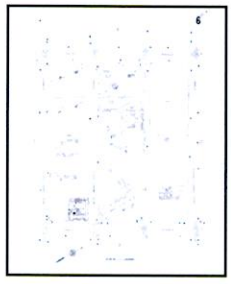
Volume 5S, Sheet 6

2002 Source Sheets

Volume 5S, Sheet 3

Volume 5S, Sheet 4

Volume 5S, Sheet 5

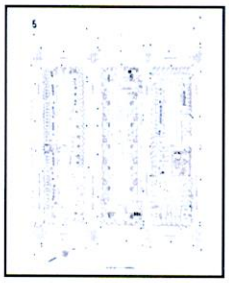


Volume 5S, Sheet 6

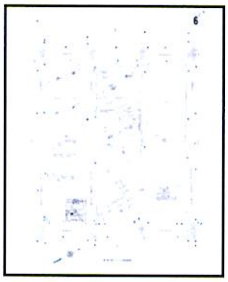
2001 Source Sheets

Volume 5S, Sheet 3

Volume 5S, Sheet 4



Volume 5S, Sheet 5



Volume 5S, Sheet 6

1996 Source Sheets

Volume 5S, Sheet 3

Volume 5S, Sheet 4

Volume 5S, Sheet 5

Volume 5S, Sheet 6

1995 Source Sheets

Volume 5S, Sheet 3

Volume 5S, Sheet 4

Volume 5S, Sheet 5

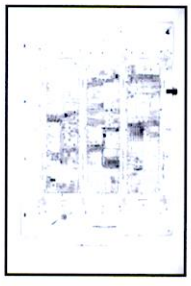
Volume 5S, Sheet 6

1994 Source Sheets

Volume 5S, Sheet 3

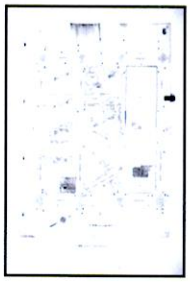
Volume 5S, Sheet 3

Volume 5S, Sheet 4



Volume 5S, Sheet 4

Volume 5S, Sheet 5



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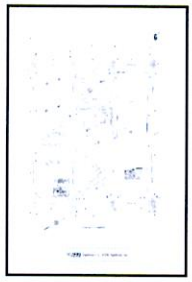
Volume 5S, Sheet 4

Volume 5S, Sheet 5



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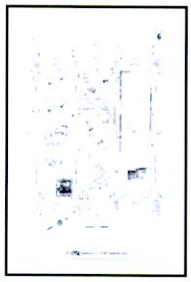

Volume 5S, Sheet 6

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Volume 5S, Sheet 3

Volume 5S, Sheet 4

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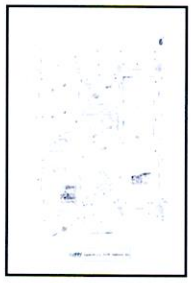

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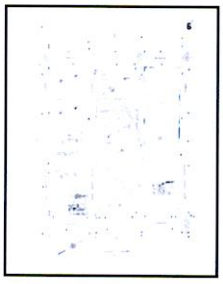
Volume 5S, Sheet 5



Volume 5S, Sheet 6

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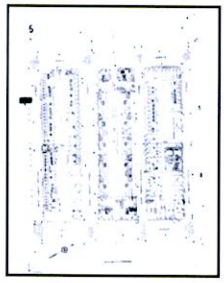

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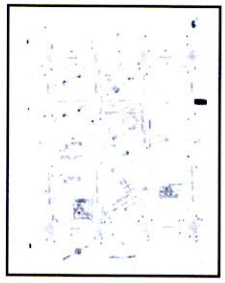

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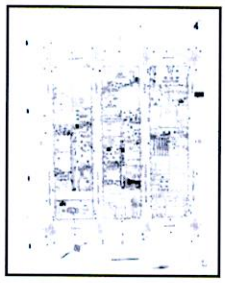

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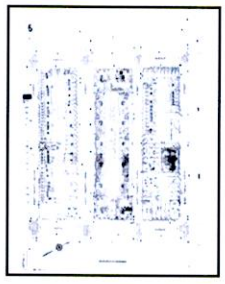

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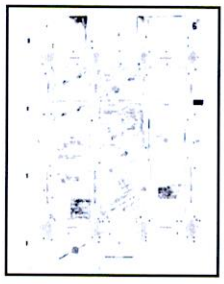

Volume 5S, Sheet 6

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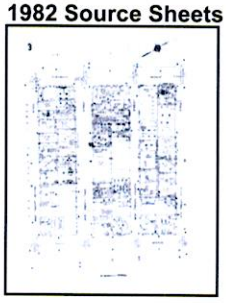

Volume 5S, Sheet 3

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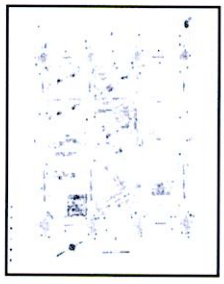
Volume 5S, Sheet 5



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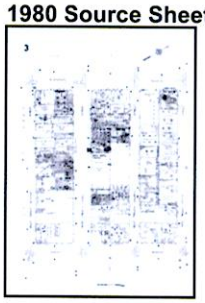

Volume 5S, Sheet 3

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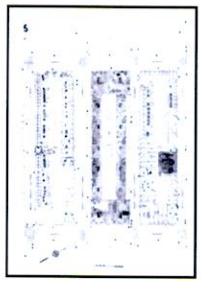

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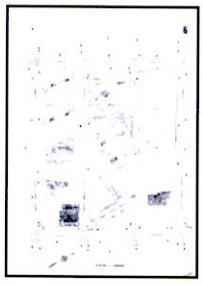

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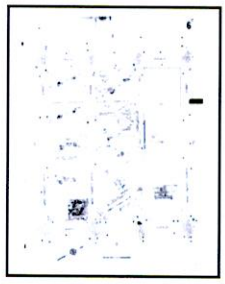

Volume 5S, Sheet 6

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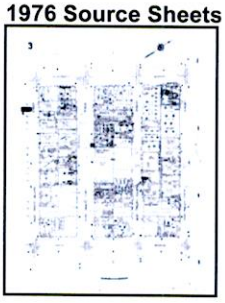

Volume 5S, Sheet 3

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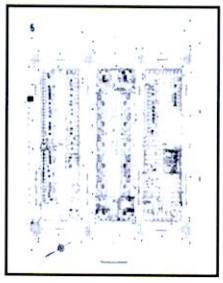

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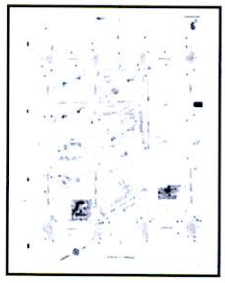

Volume 5S, Sheet 6

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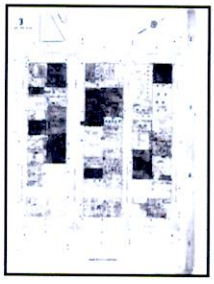
Volume 2, Sheet xxxx



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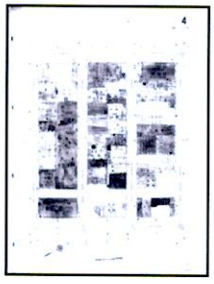

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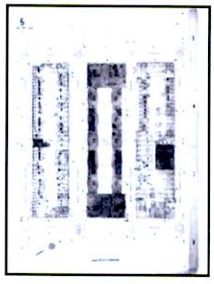

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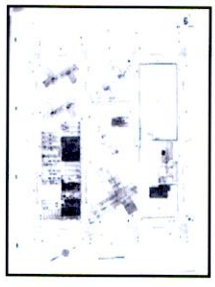

Volume 5S, Sheet 6

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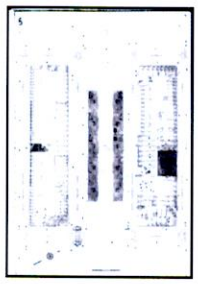
Volume 5S, Sheet 3

Volume 5S, Sheet 4



Volume 5S, Sheet 5

Volume 5S, Sheet 6

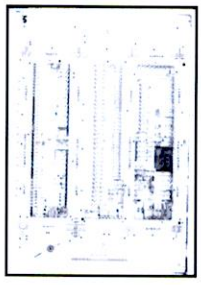
1928 Source Sheets

Volume Pier Maps, Sheet 4

1911 Source Sheets

Volume 5N, Sheet 3

Volume 5N, Sheet 4



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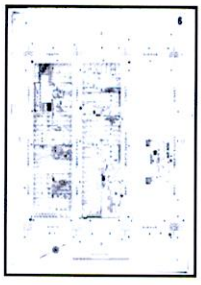


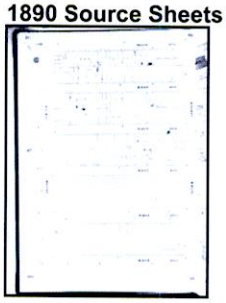
Volume 5N, Sheet 6

1899 Source Sheets

Volume 5N, Sheet 86

Volume 5N, Sheet 87

1890 Source Sheets



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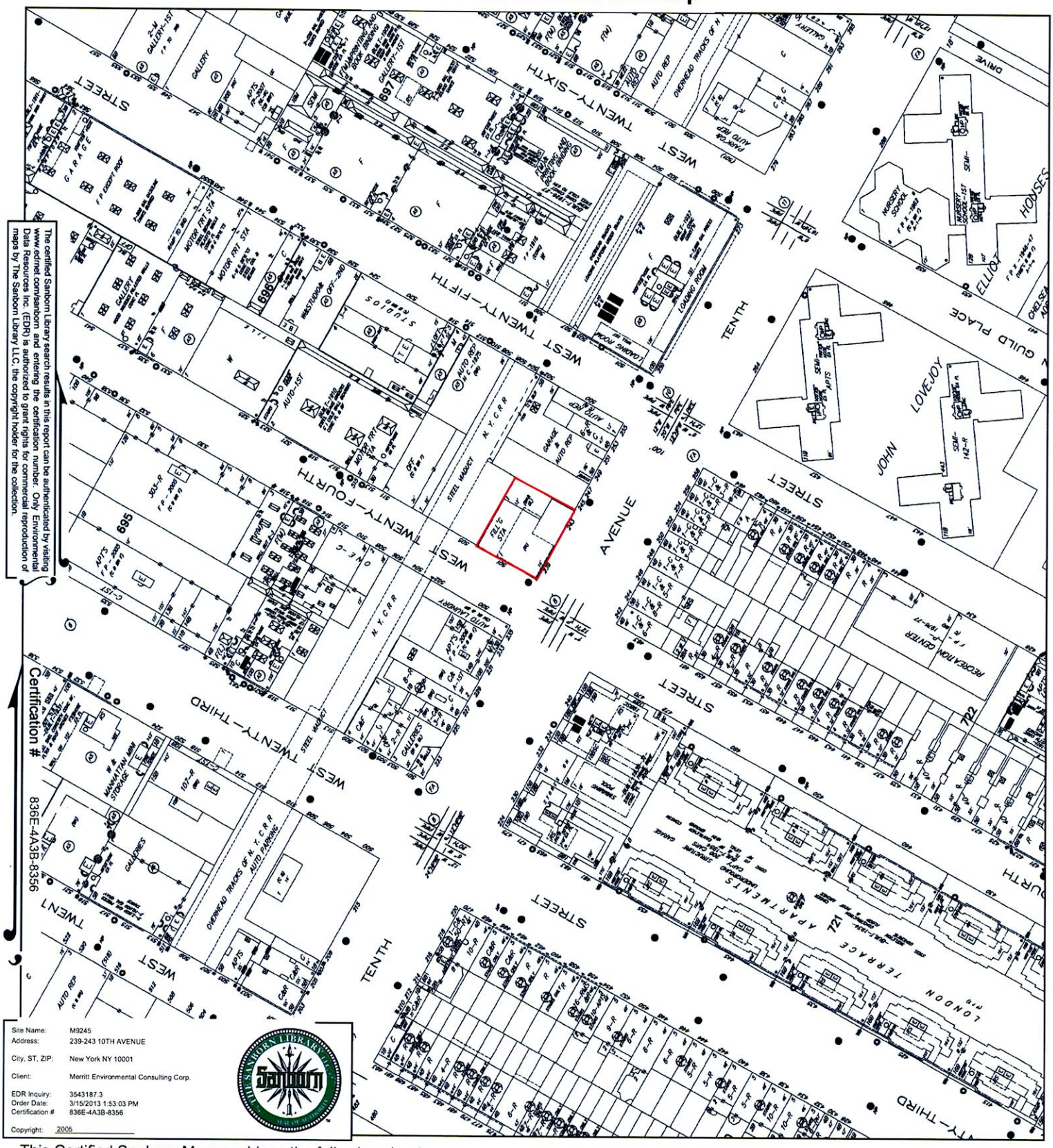

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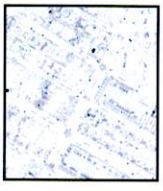

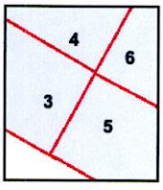

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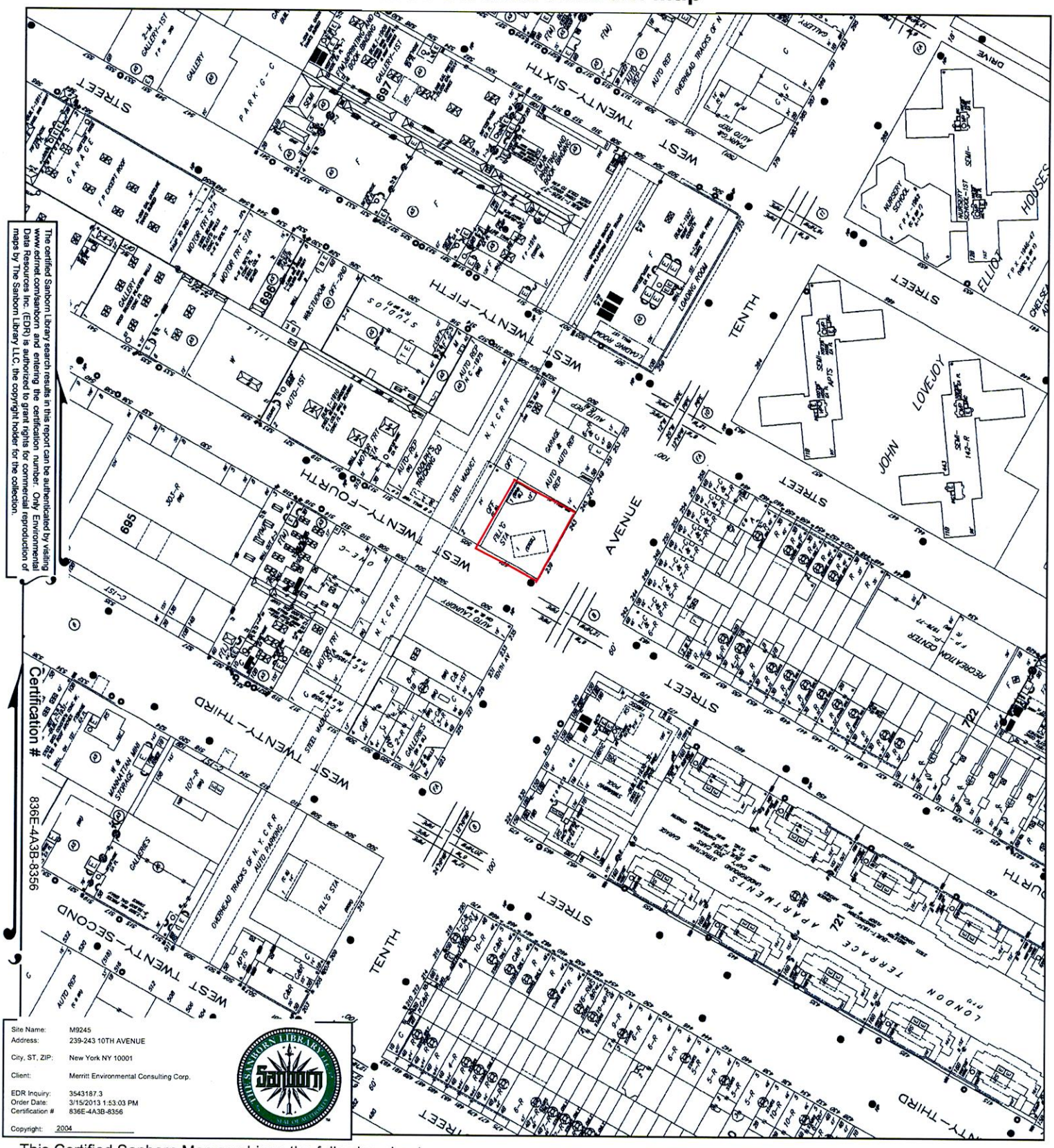

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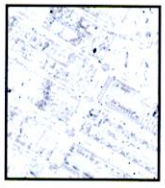

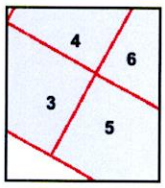

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Volume 5S, Sheet 5
Volume 5S, Sheet 6

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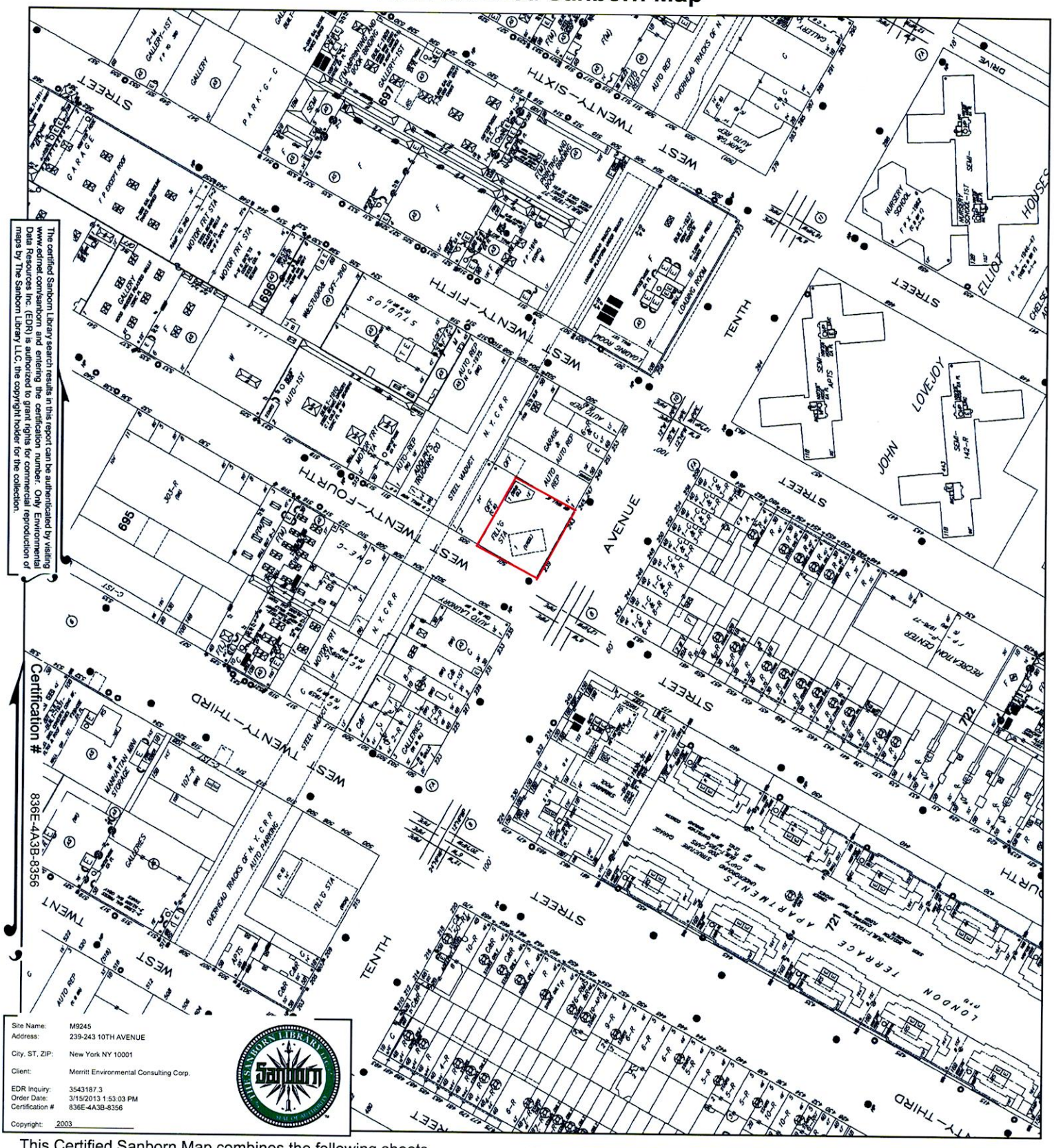

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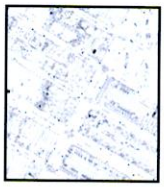

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Volume 5S, Sheet 6

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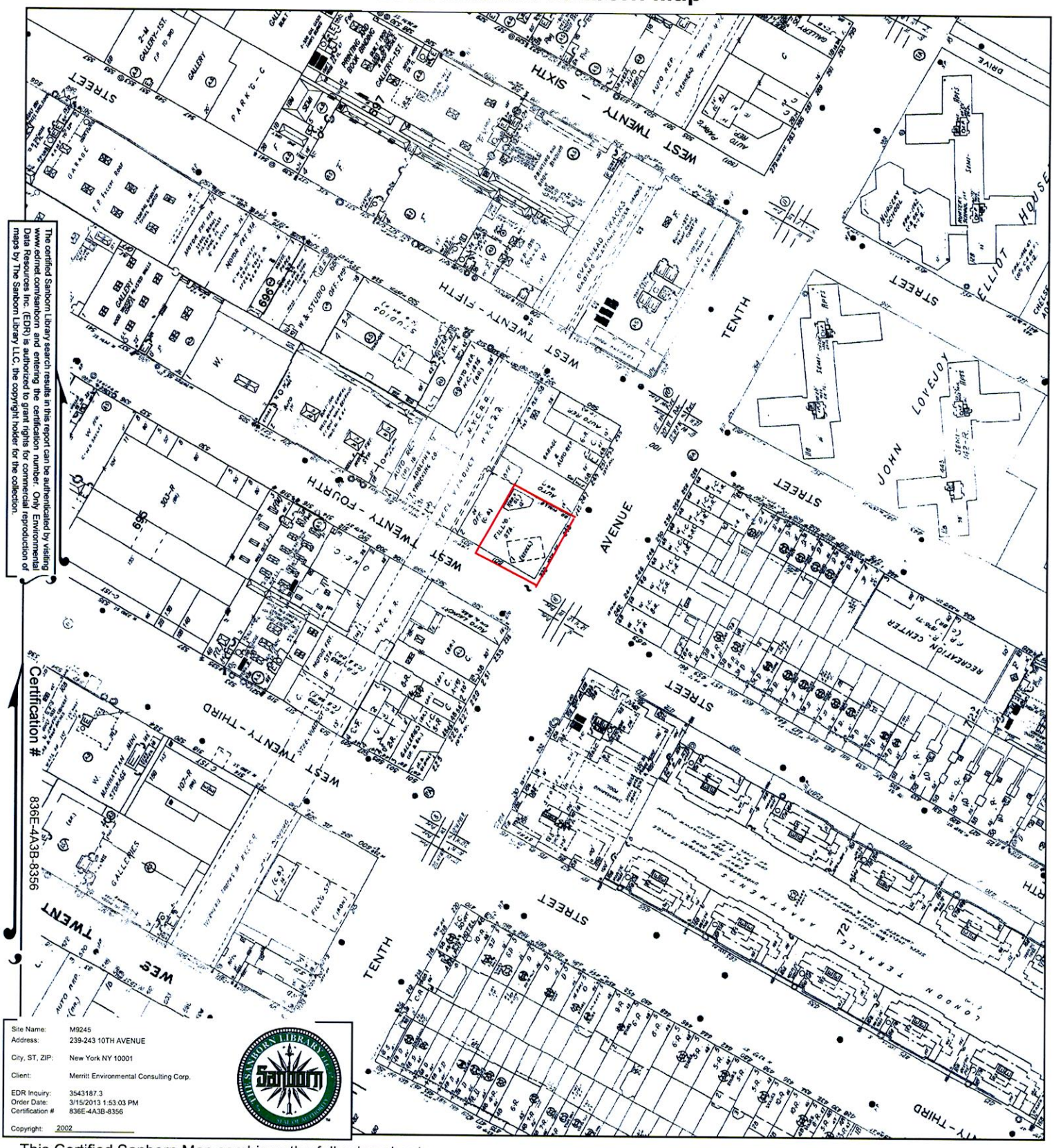

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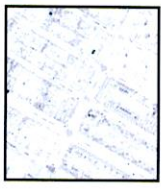

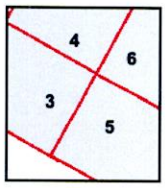

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Volume 5S, Sheet 6

0 Feet 150 300 600

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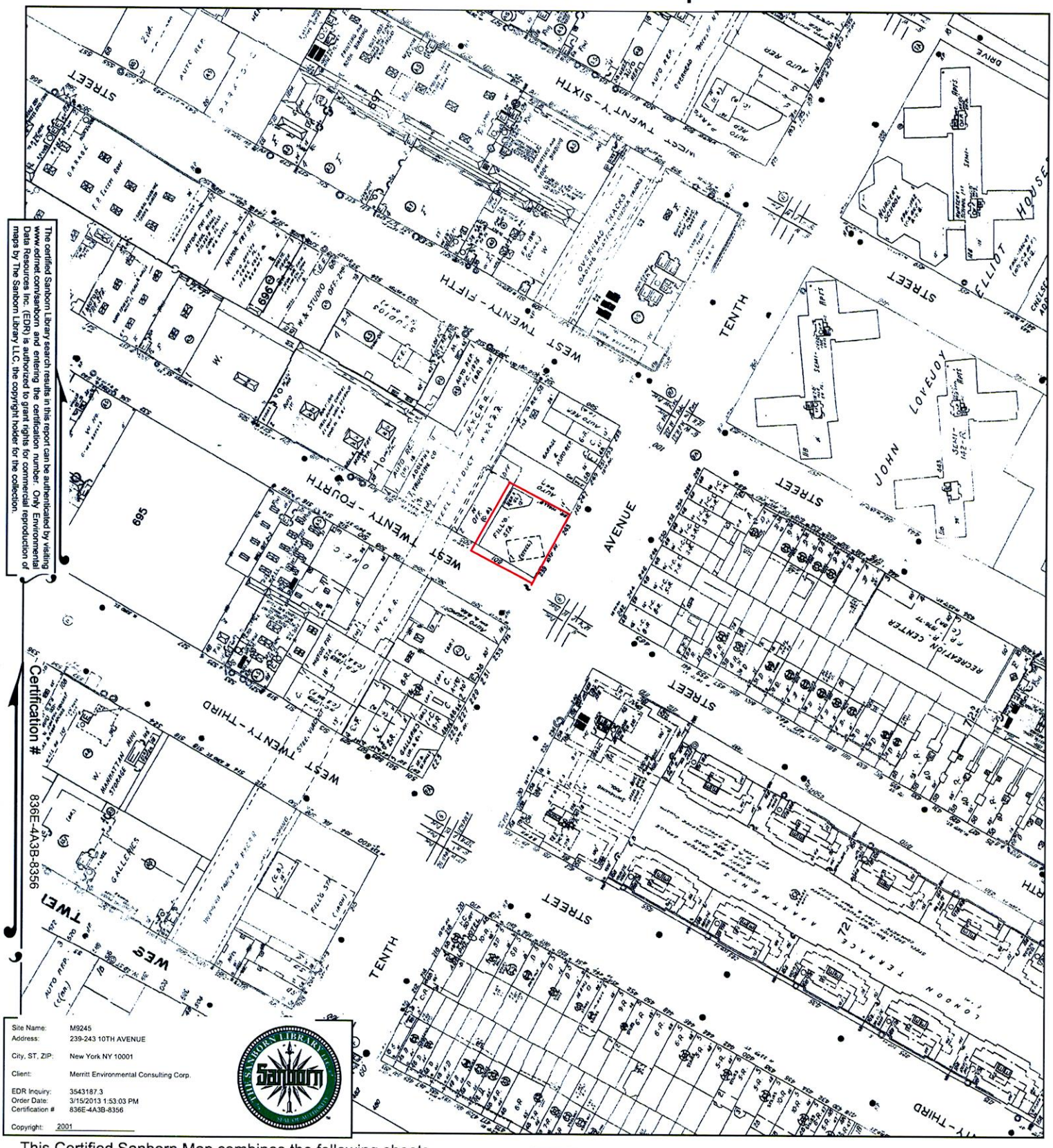

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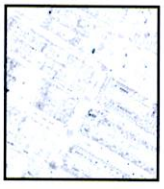

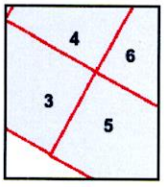

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Volume 5S, Sheet 5
Volume 5S, Sheet 6

0 Feet 150 300 600

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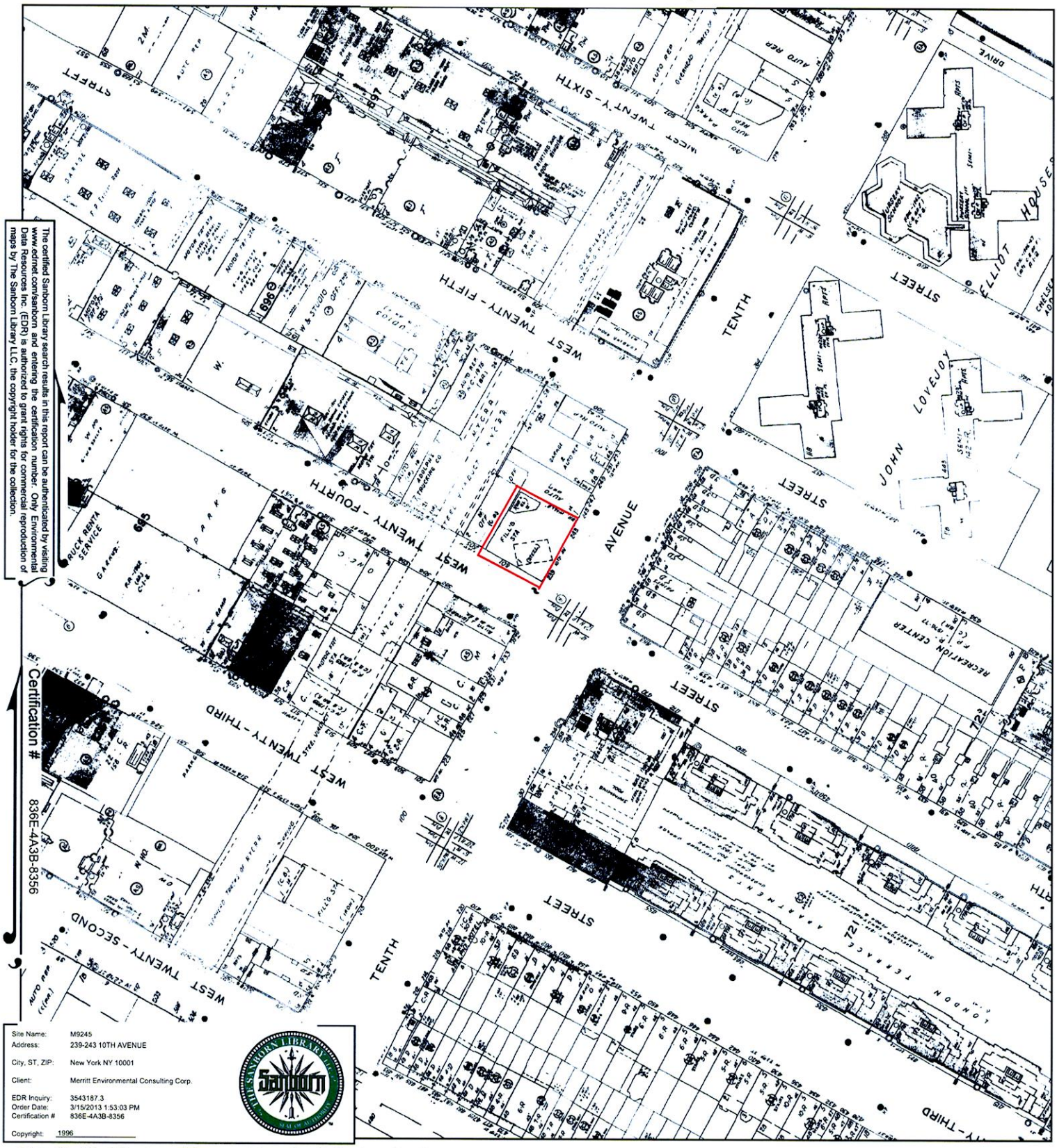

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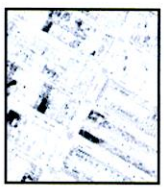

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0 Feet 150 300 600

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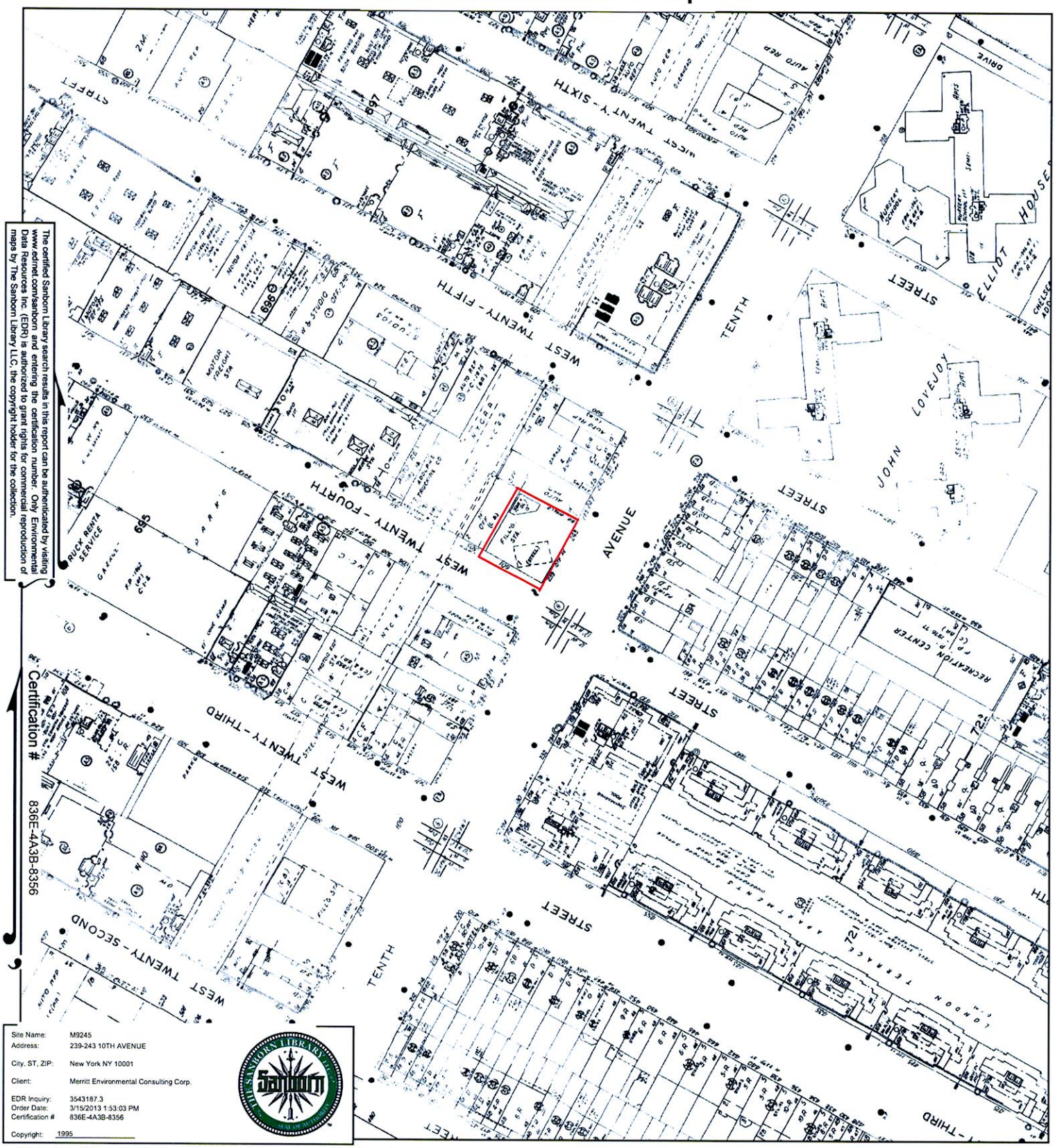
1995 Certified Sanborn Map



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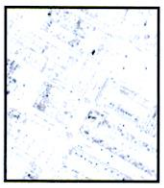

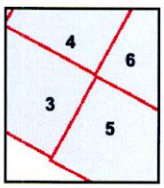

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0 Feet 150 300 600

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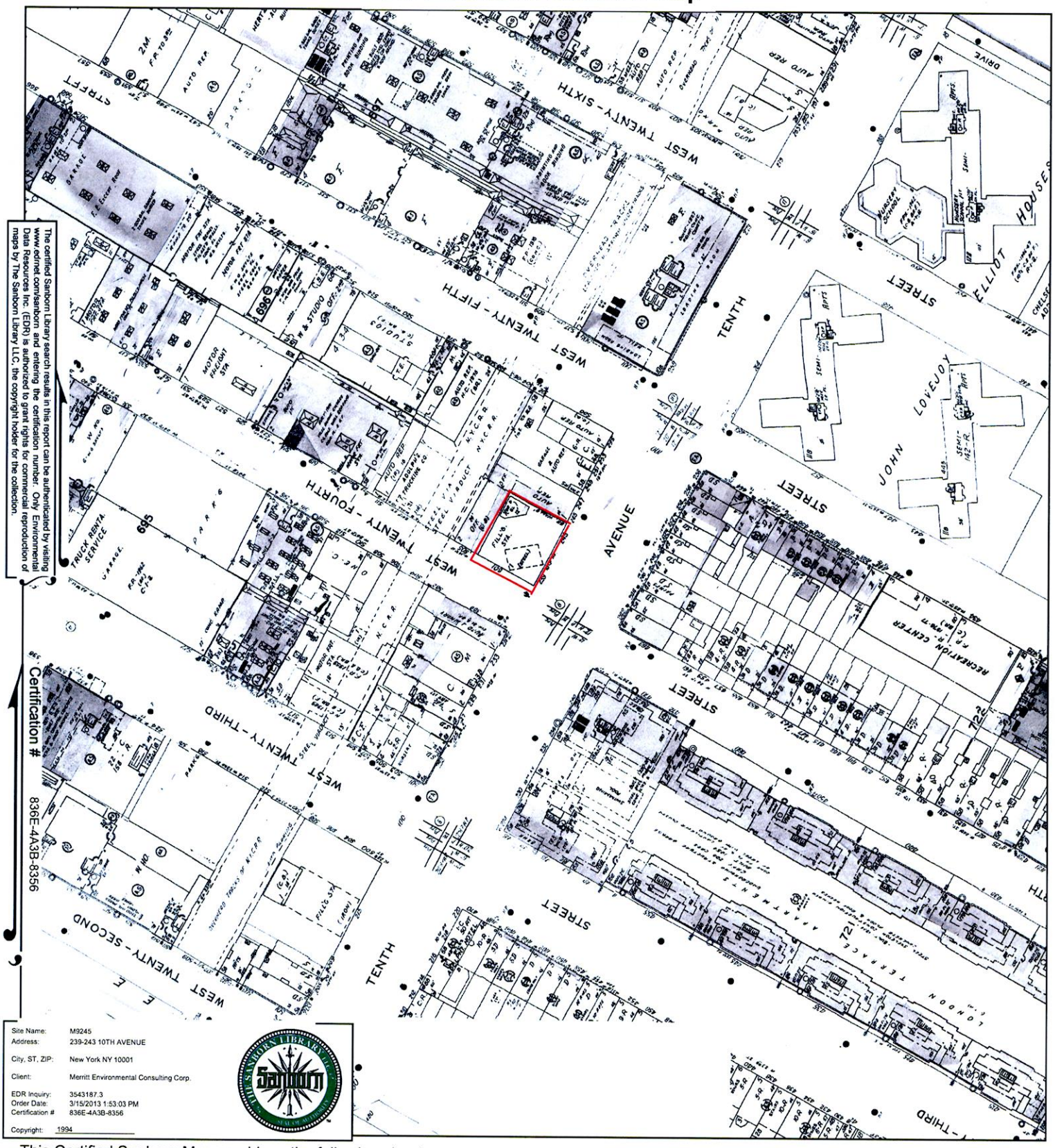
1994 Certified Sanborn Map



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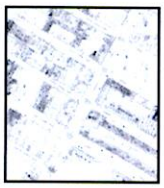

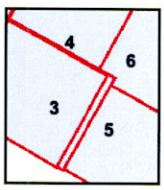

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0 Feet 150 300 600

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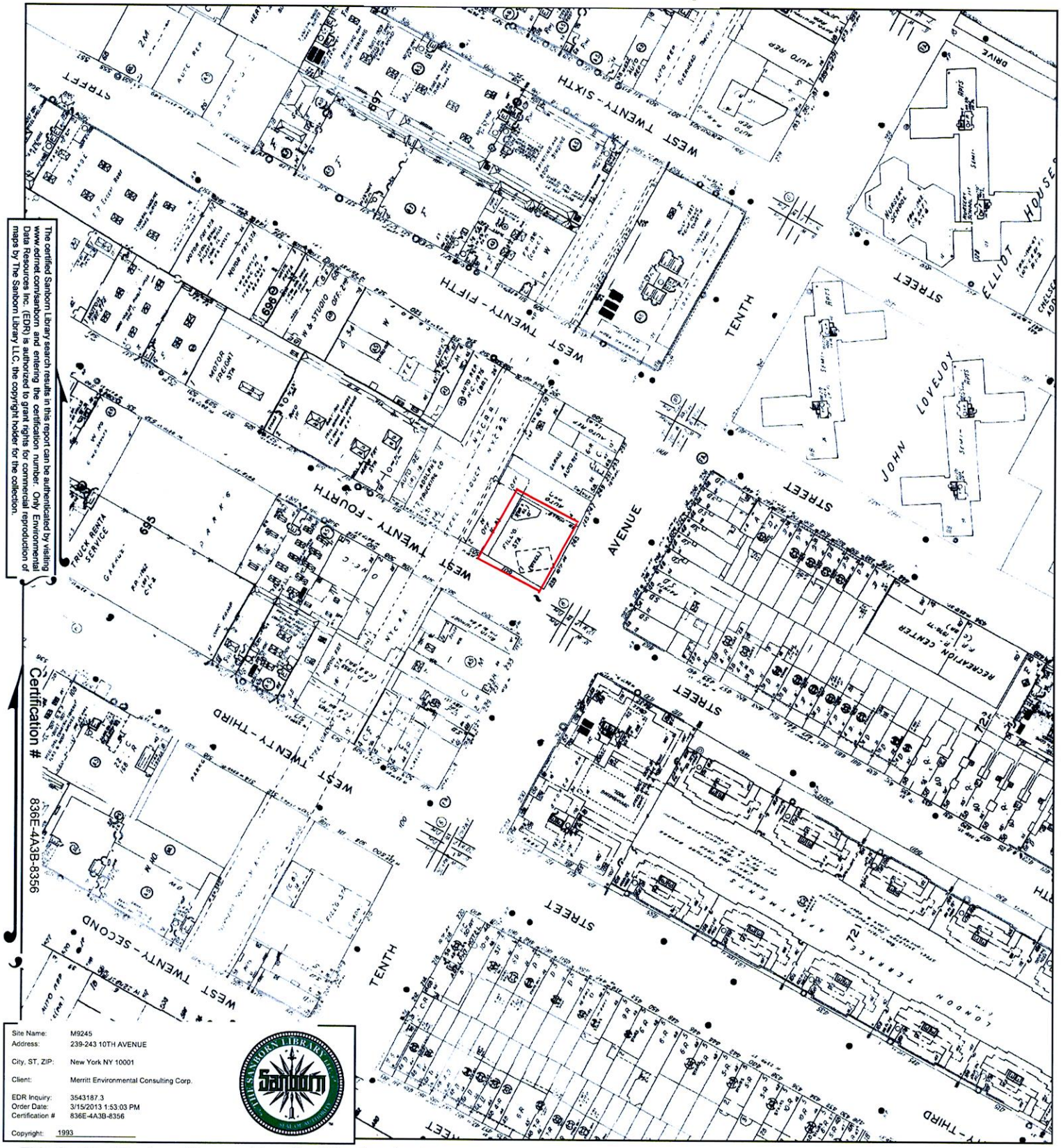
1993 Certified Sanborn Map



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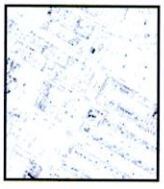

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0 Feet 150 300 600

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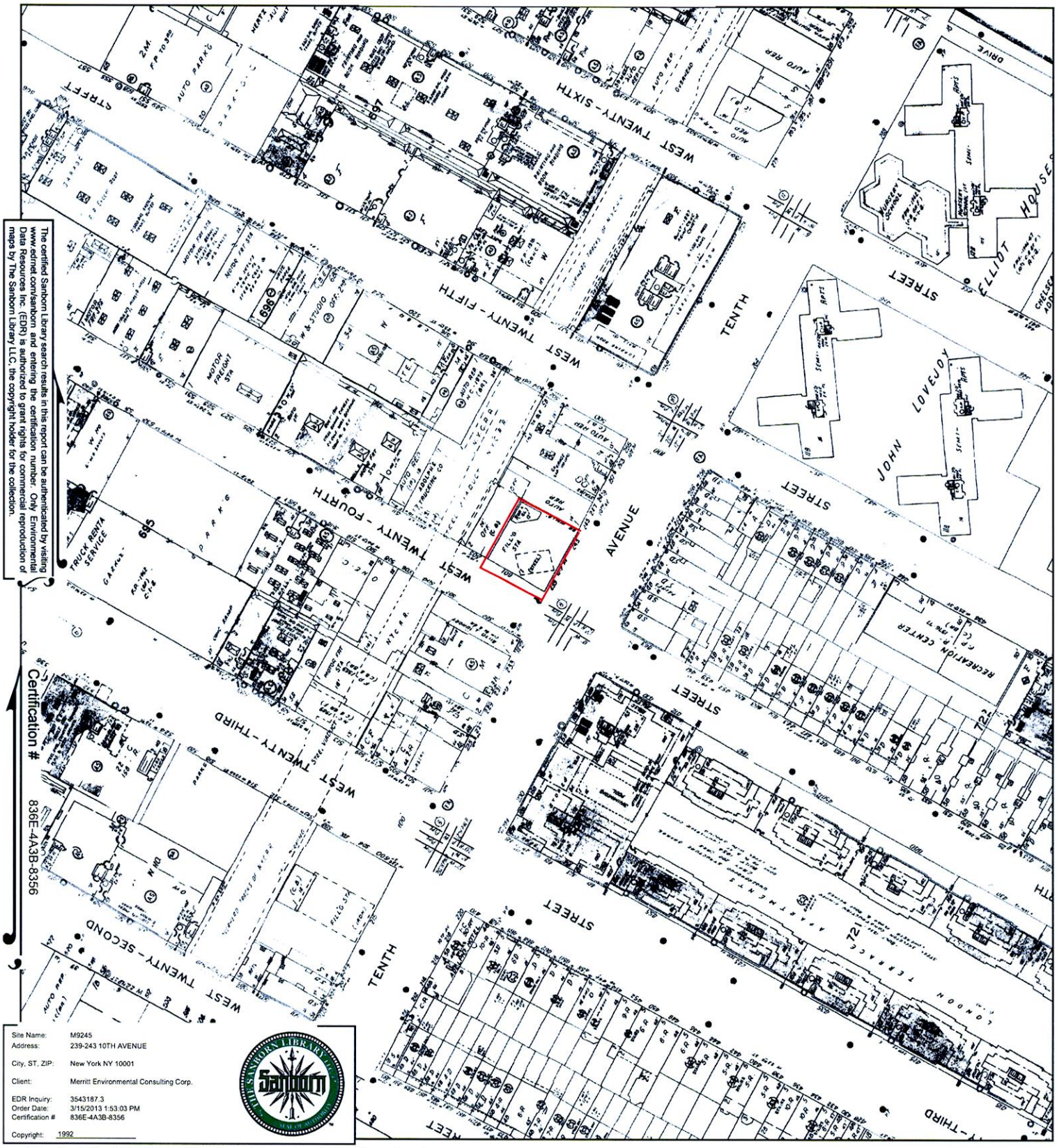

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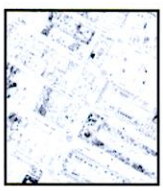

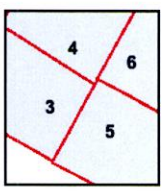

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Volume 5S, Sheet 6

0 Feet 150 300 600

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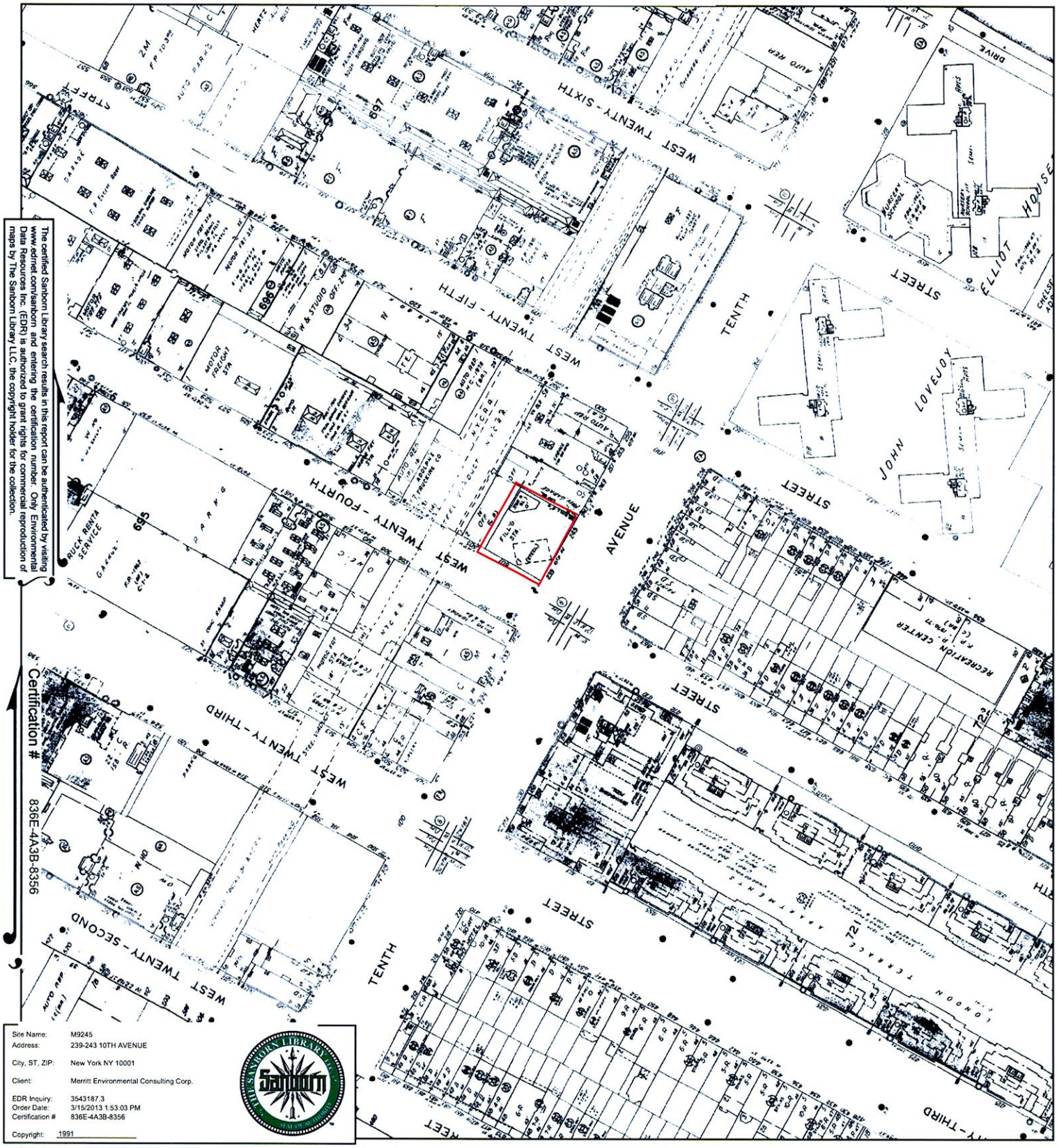

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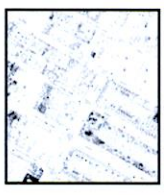

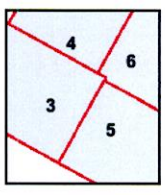

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0 Feet 150 300 600

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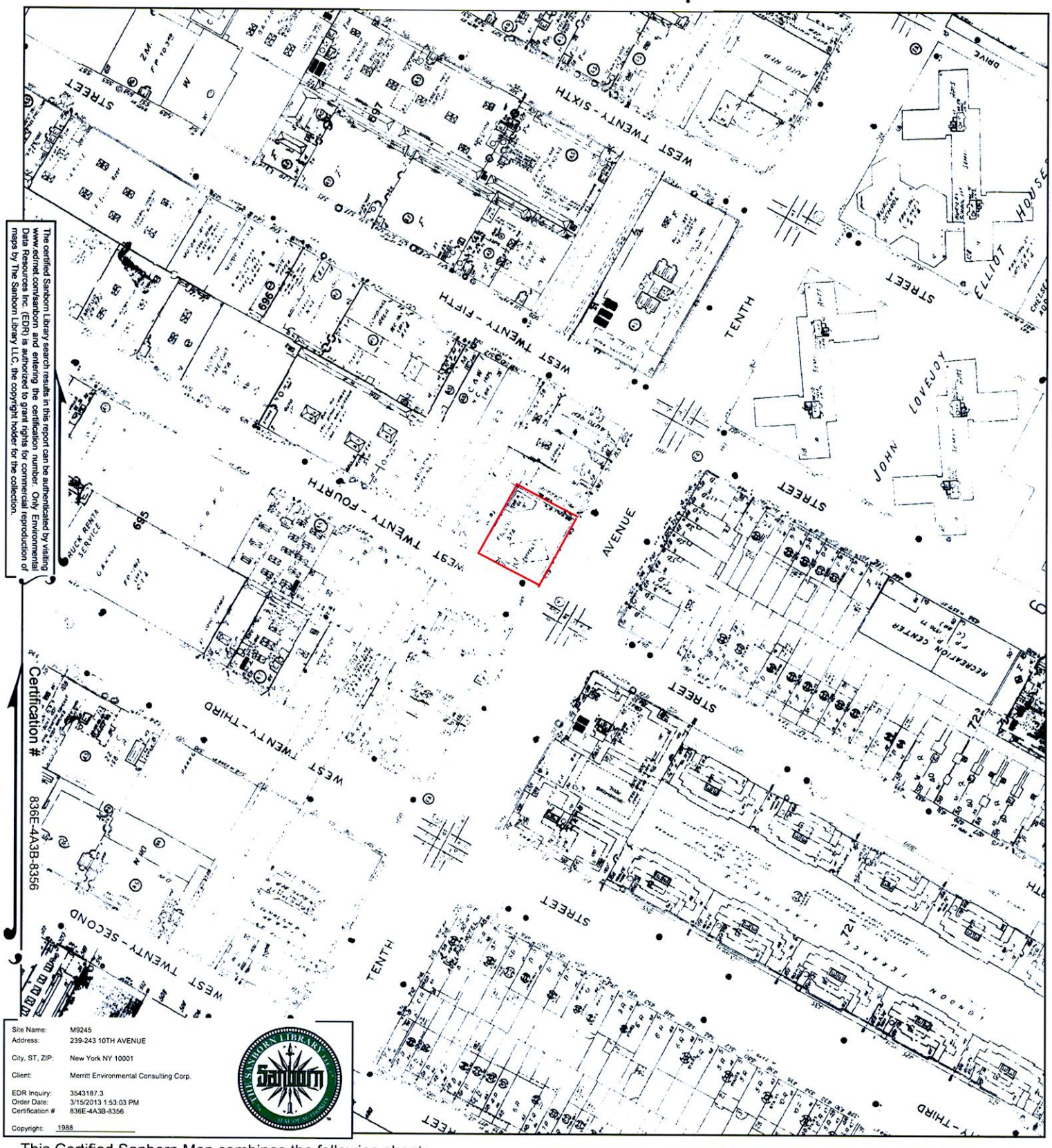
1988 Certified Sanborn Map



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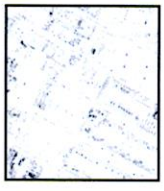

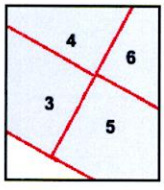

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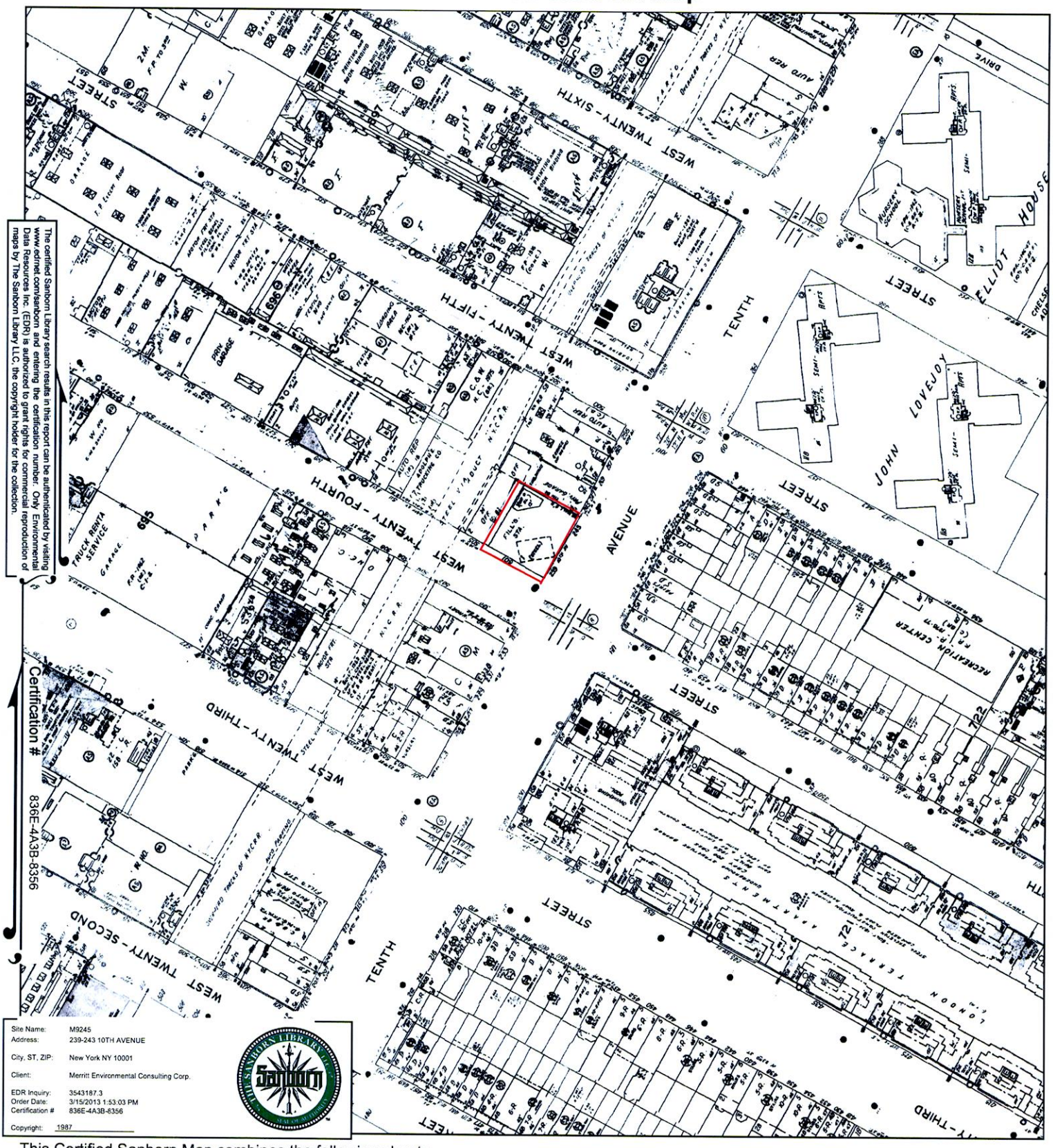
1987 Certified Sanborn Map



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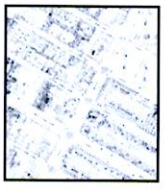

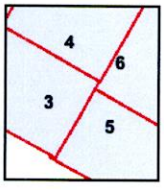

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0 Feet 150 300 600

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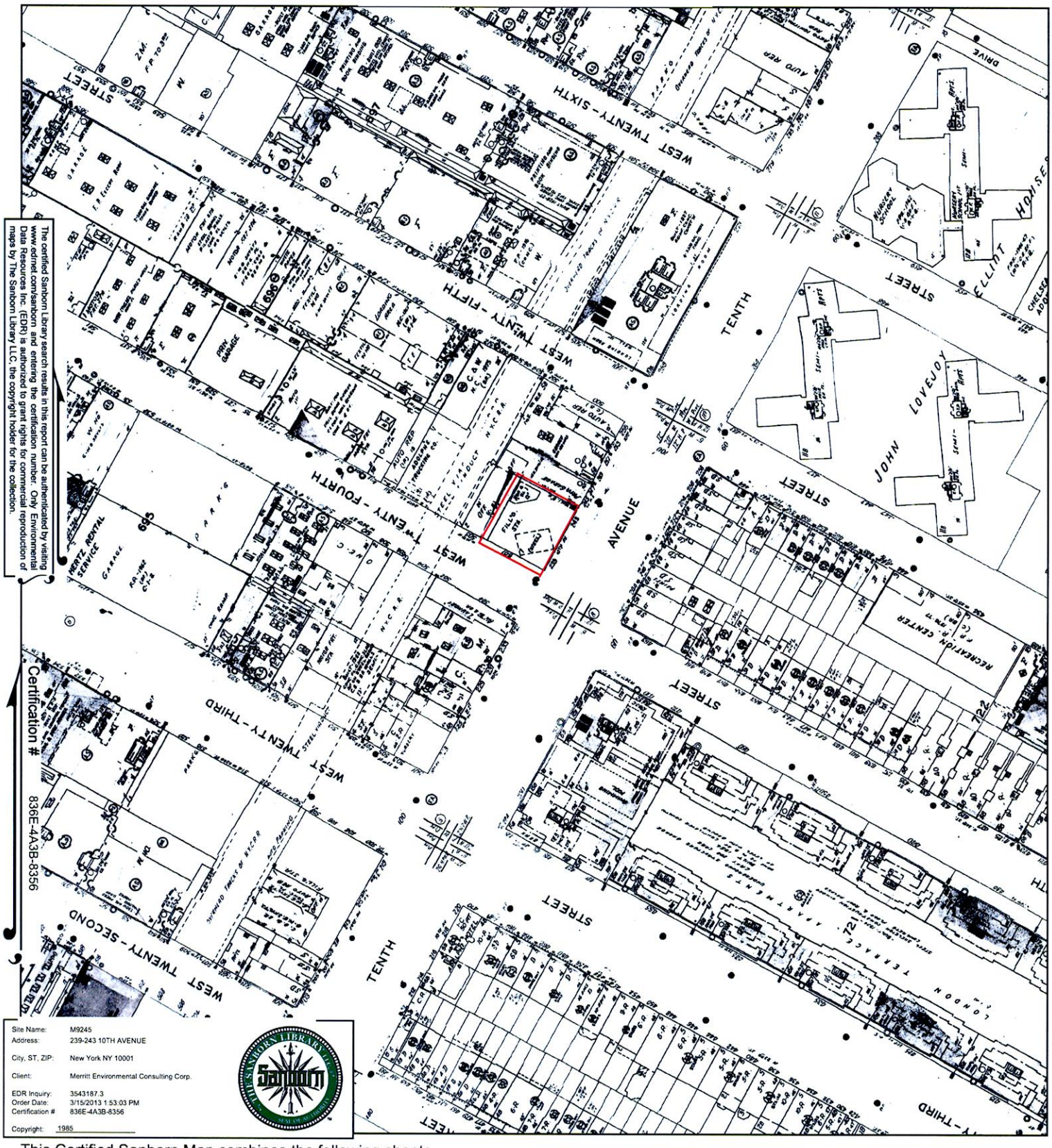
1985 Certified Sanborn Map



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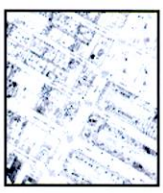

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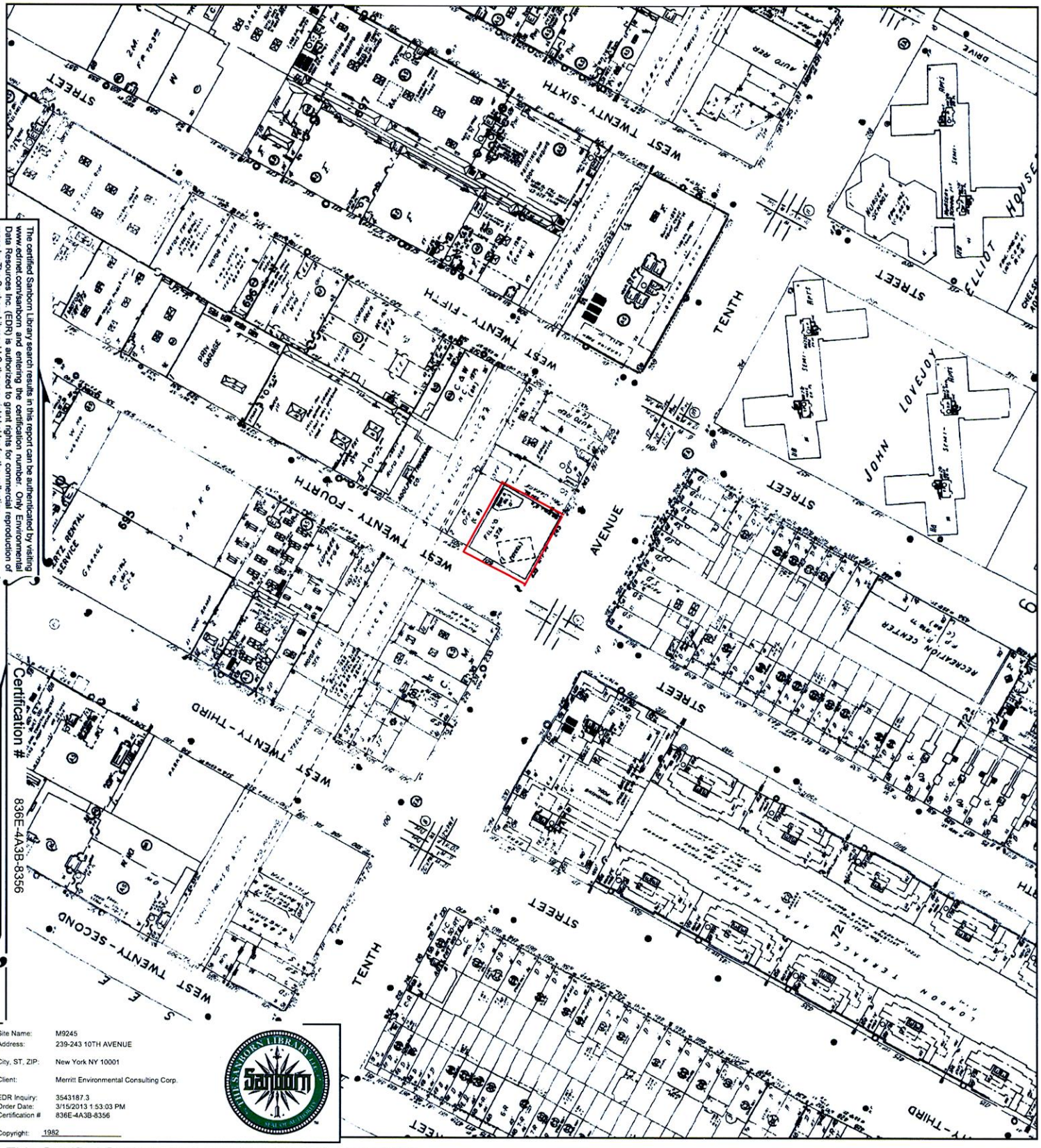
1982 Certified Sanborn Map



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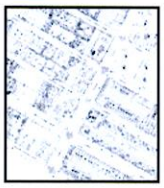

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0 Feet 150 300 600

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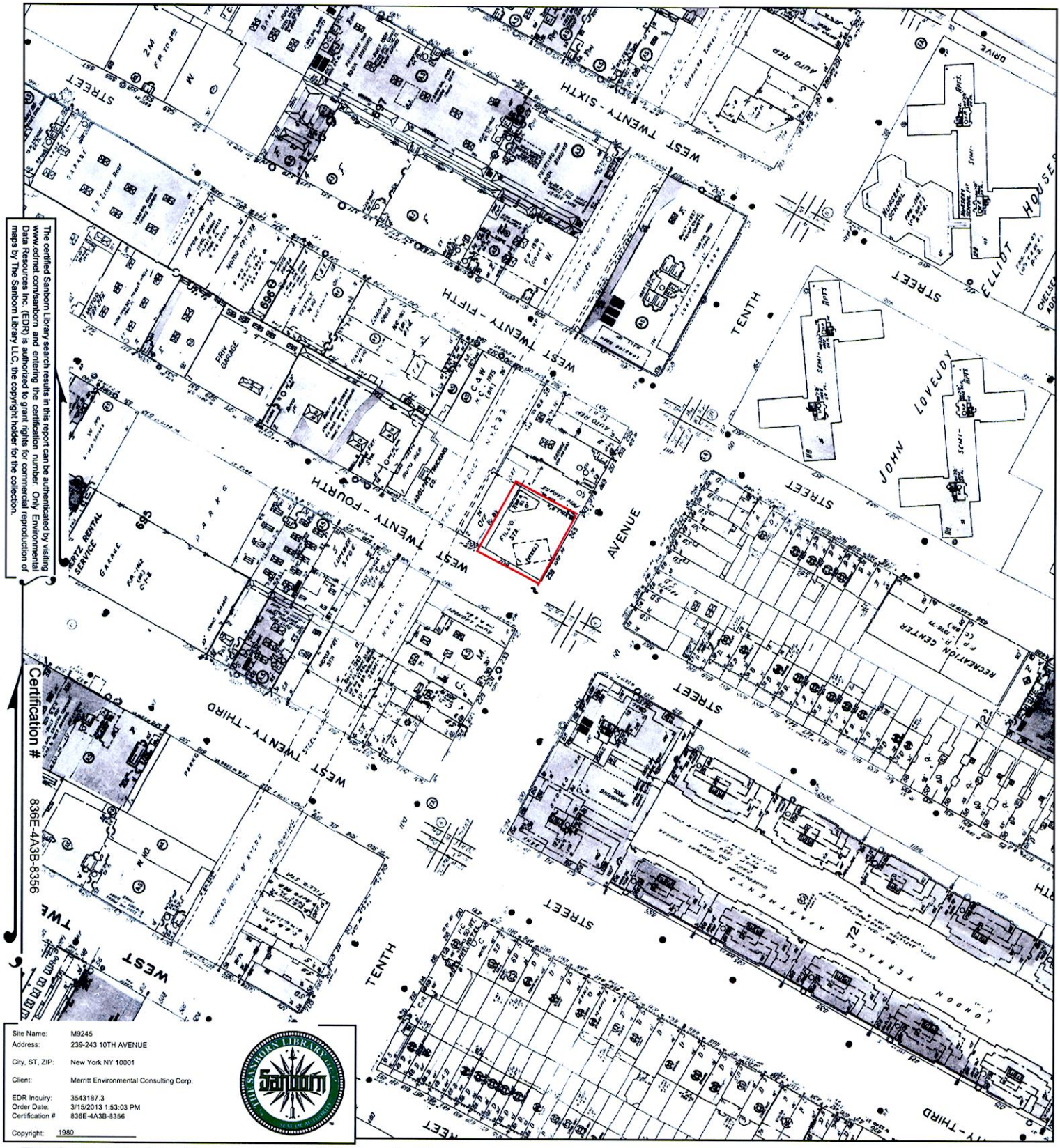
1980 Certified Sanborn Map



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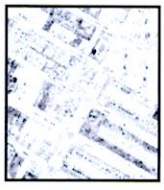

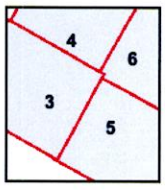

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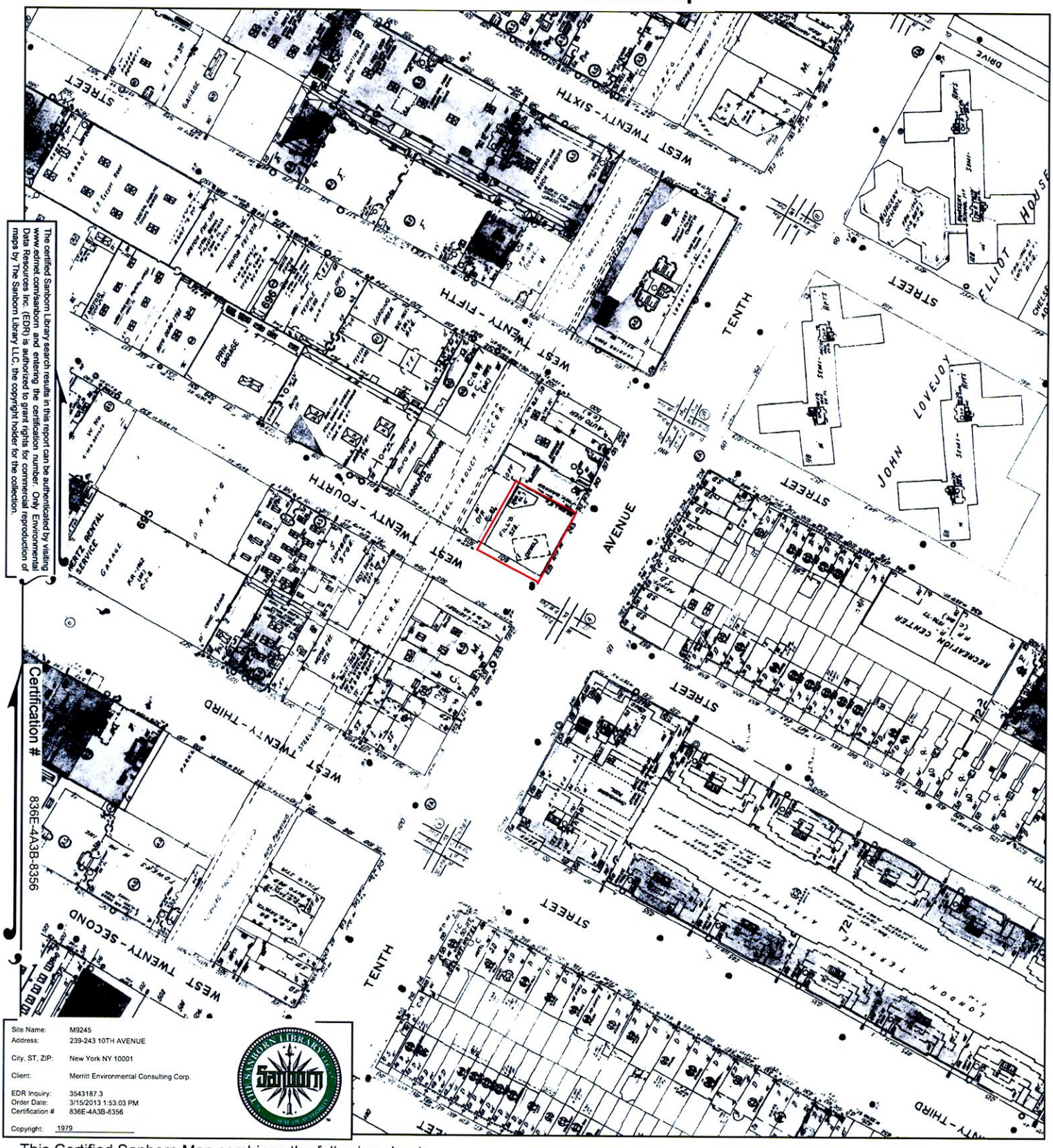
1979 Certified Sanborn Map



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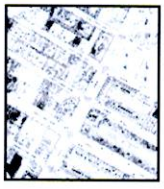

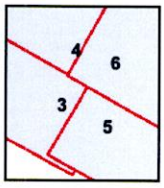

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Volume 5S, Sheet 6

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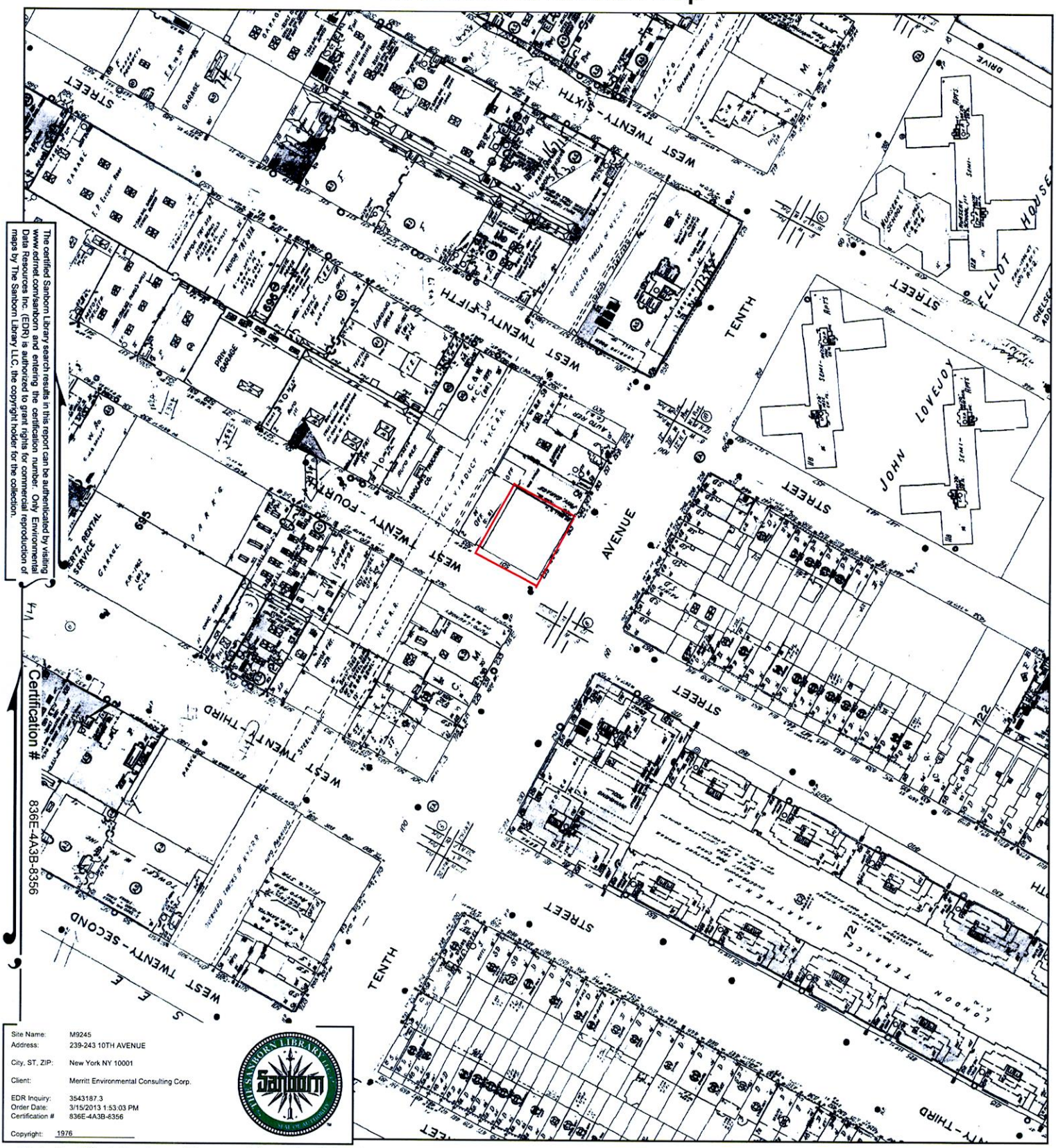
1976 Certified Sanborn Map



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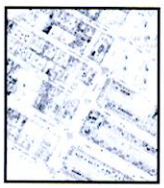

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0 Feet 150 300 600

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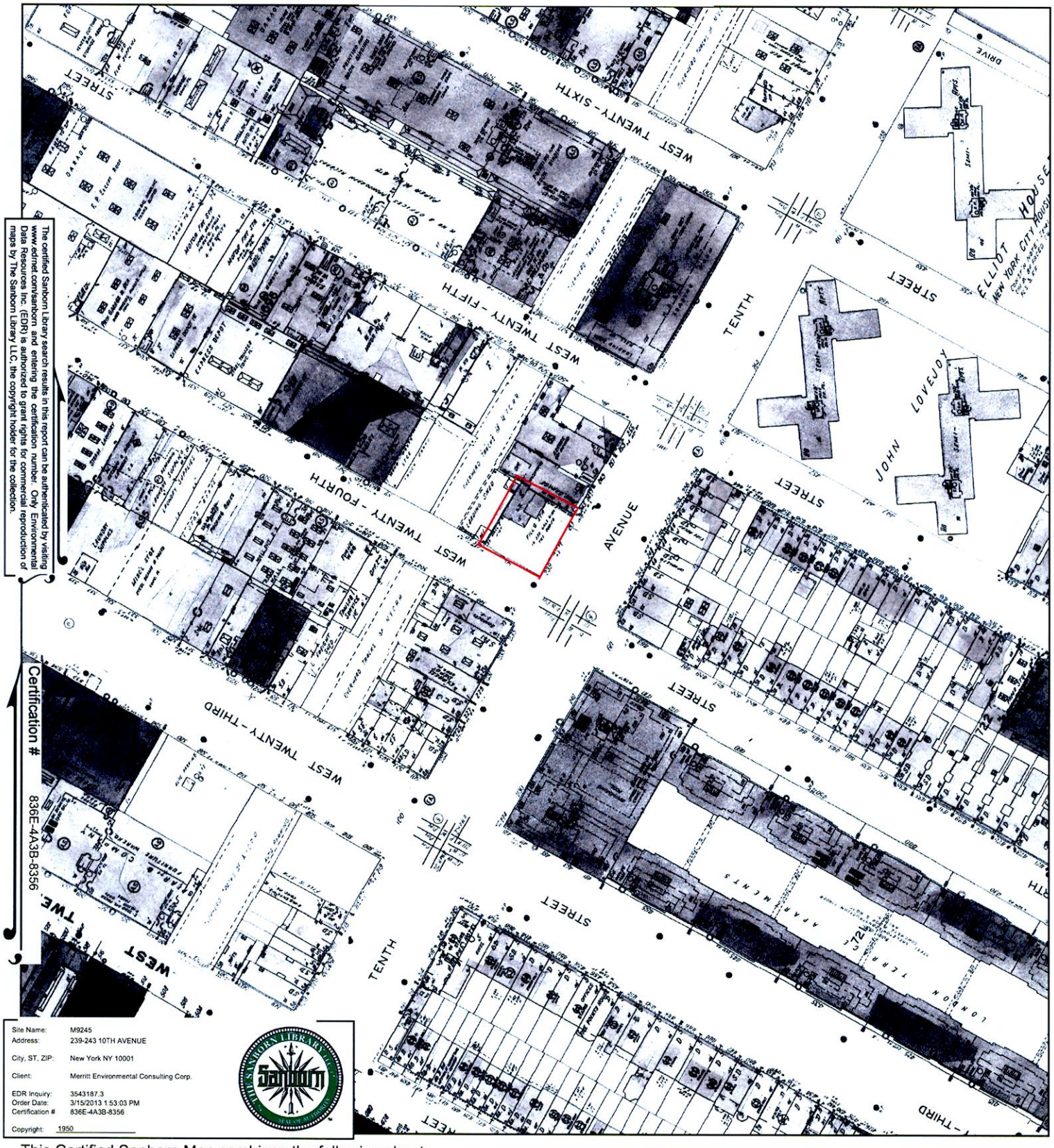
1950 Certified Sanborn Map



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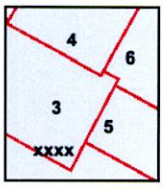

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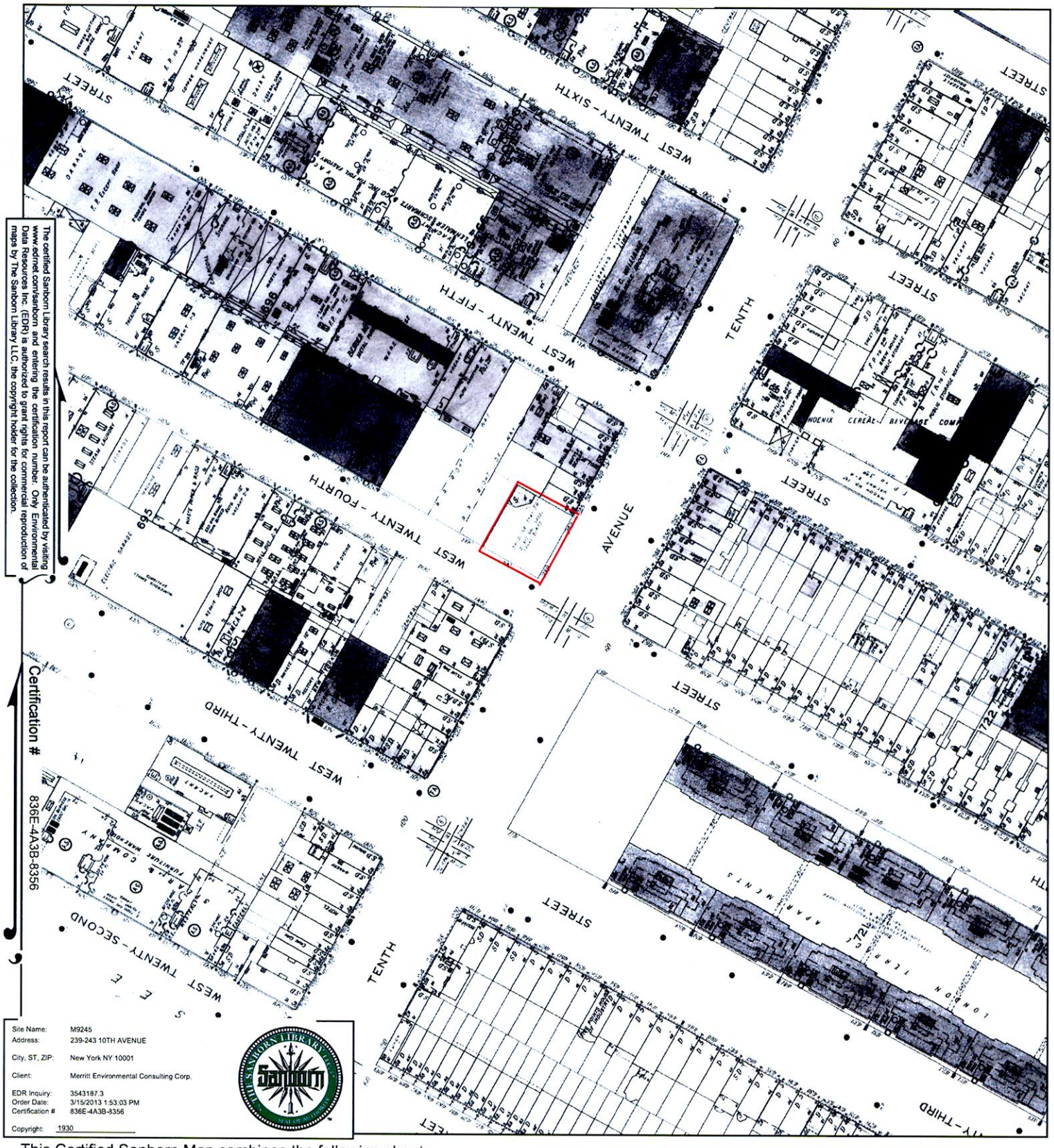
0 Feet 150 300 600

N

1930 Certified Sanborn Map



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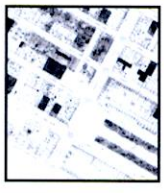

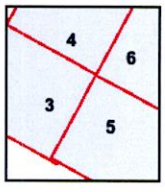

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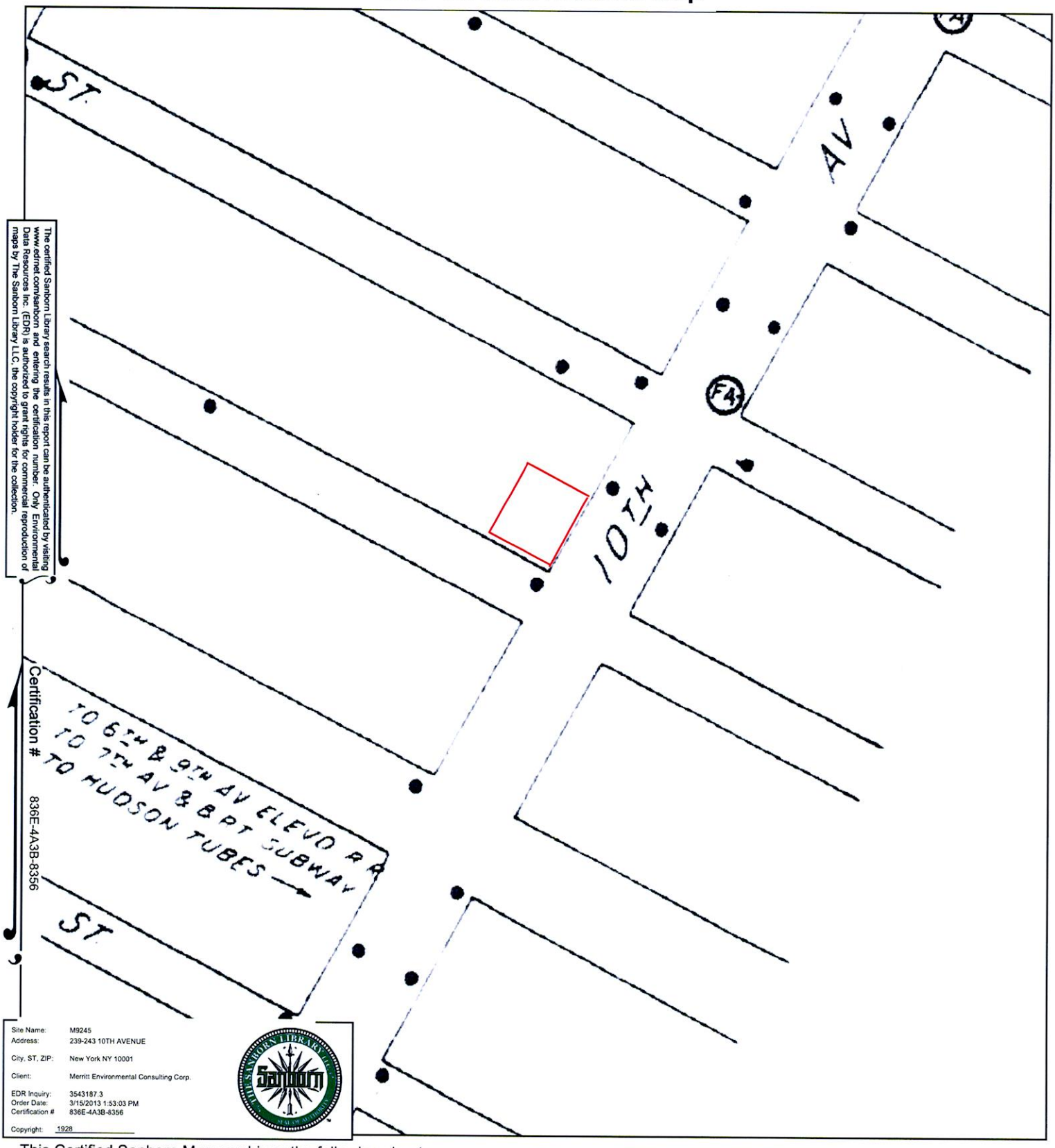
1928 Certified Sanborn Map



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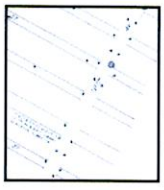
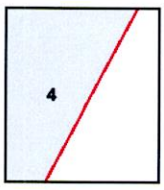
Site Name: M9245
Address: 239-243 10TH AVENUE
City, ST, ZIP: New York NY 10001
Client: Merritt Environmental Consulting Corp.
EDR Inquiry: 3543187.3
Order Date: 3/15/2013 1:53:03 PM
Certification #: 836E-4A3B-8356
Copyright: 1928

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



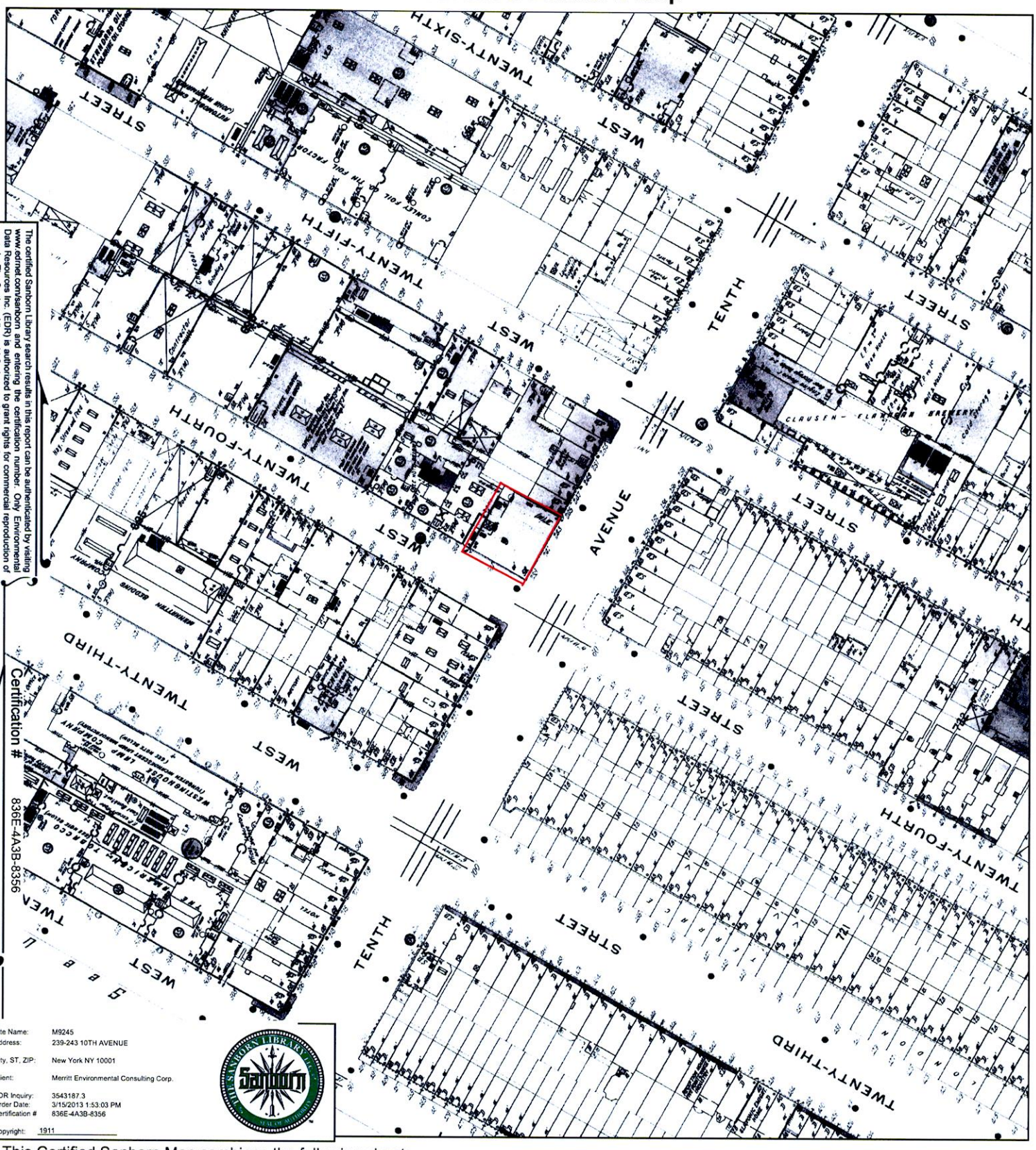


Volume Pier Maps, Sheet 4

0 Feet 150 300 600

N

1911 Certified Sanborn Map



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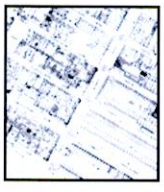
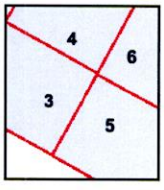
Certification # 836E-4A3B-8356

Site Name:	M9245
Address:	239-243 10TH AVENUE
City, ST, ZIP:	New York NY 10001
Client:	Merritt Environmental Consulting Corp.
EDR Inquiry:	3543187.3
Order Date:	3/15/2013 1:53:03 PM
Certification #	836E-4A3B-8356
Copyright:	1911

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



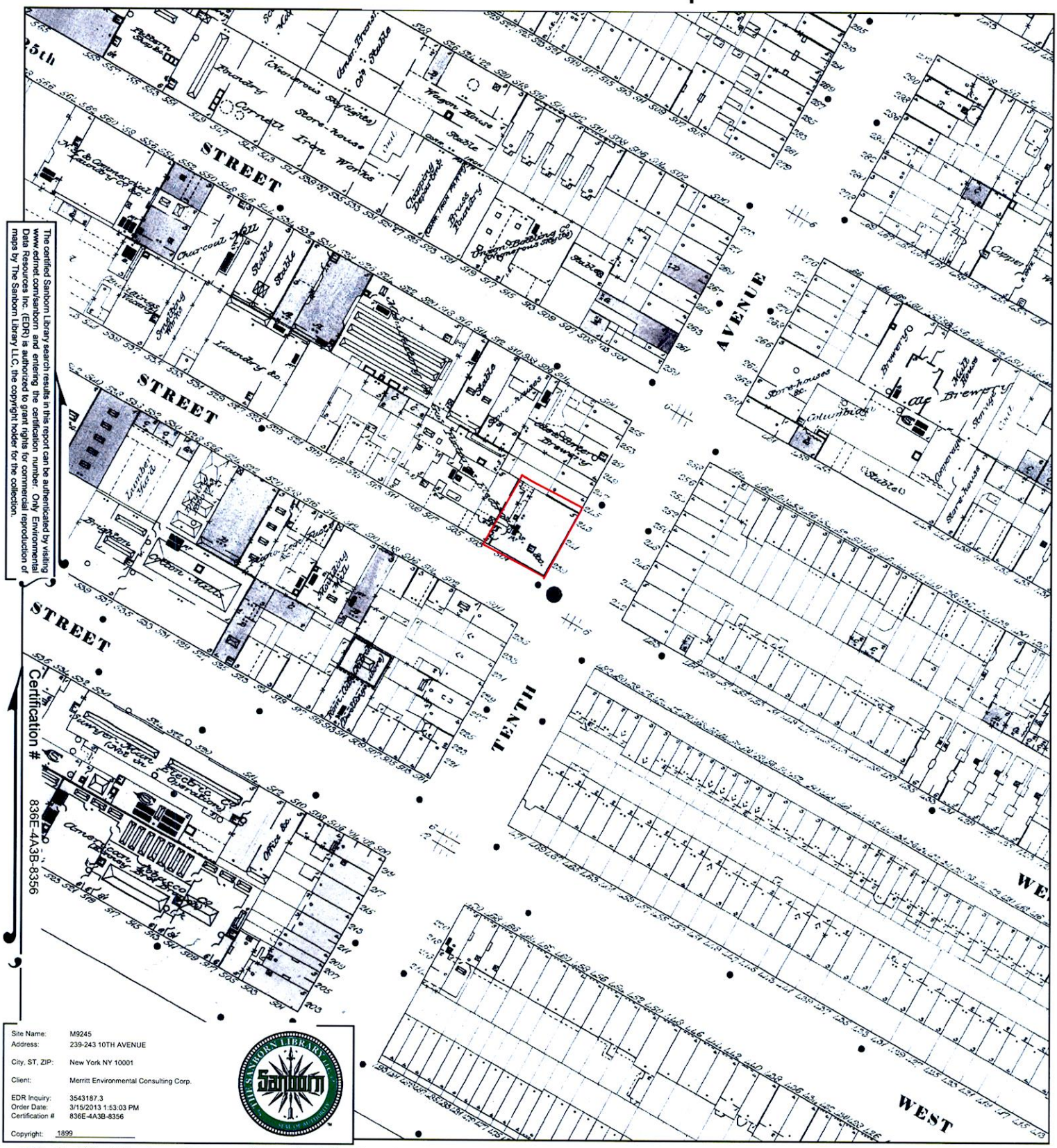


Volume 5N, Sheet 3
Volume 5N, Sheet 4
Volume 5N, Sheet 5
Volume 5N, Sheet 6

0 Feet 150 300 600

N

1899 Certified Sanborn Map



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Certification # 836E-4A3B-8356

Site Name:	M9245
Address:	239-243 10TH AVENUE
City, ST, ZIP:	New York NY 10001
Client:	Merritt Environmental Consulting Corp.
EDR Inquiry:	3543187.3
Order Date:	3/15/2013 1:53:03 PM
Certification #	836E-4A3B-8356

Copyright: 1899

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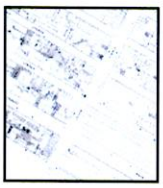

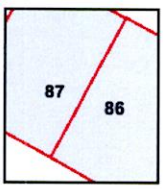

Volume 5N, Sheet 86
Volume 5N, Sheet 87

0 Feet 150 300 600

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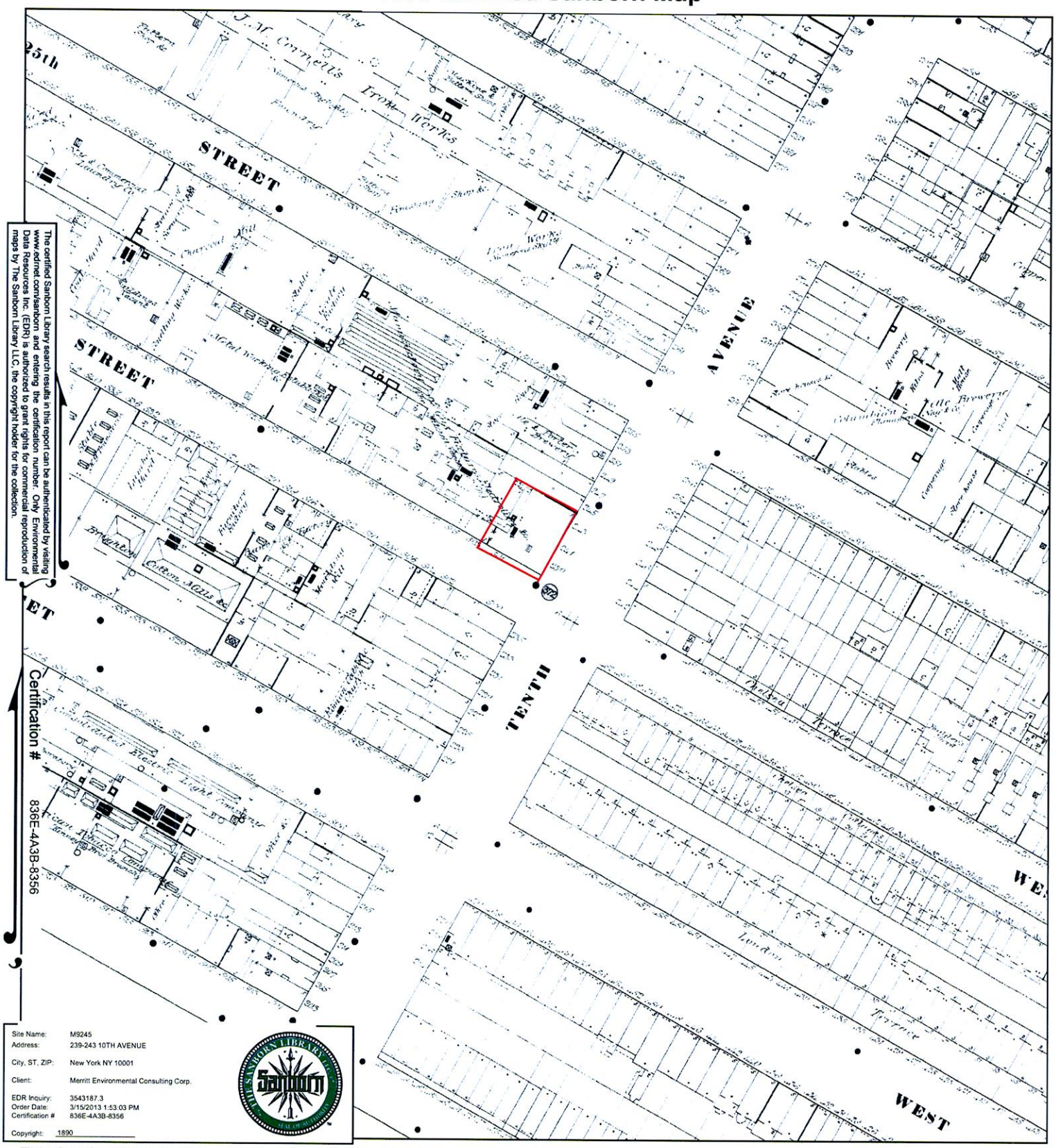
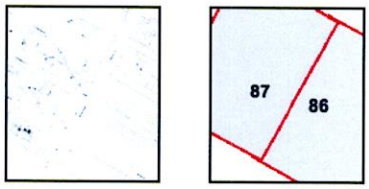
1890 Certified Sanborn Map



Site Name:	M9245
Address:	239-243 10TH AVENUE
City, ST, ZIP:	New York NY 10001
Client:	Merritt Environmental Consulting Corp.
EDR Inquiry:	3543187.3
Order Date:	3/15/2013 1:53:03 PM
Certification #	836E-4A3B-8356
Copyright:	1890

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 5N, Sheet 86
Volume 5N, Sheet 87

0 Feet 150 300 600

N

M9245
239-243 10TH AVENUE
New York, NY 10001

Inquiry Number: 3543187.5
March 14, 2013

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Date EDR Searched Historical Sources:

Aerial Photography March 14, 2013

Target Property:

239-243 10TH AVENUE

New York, NY 10001

Year	*Scale*	*Details*	*Source*
1924	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: July 01, 1924	EDR
1943	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: December 21, 1943	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: February 27, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: April 01, 1975	EDR
1984	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: April 27, 1984	EDR
1995	Aerial Photograph. Scale: 1"=750'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: March 13, 1995	EDR
1994,1995,1997	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Composite DOQQ - acquisition dates: April 04, 1994,March 13, 1995,April 10, 1997	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2008	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2009	EDR
2010	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2010	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2011	EDR

INQUIRY #: 3543187.5

YEAR: 1924

= 500'

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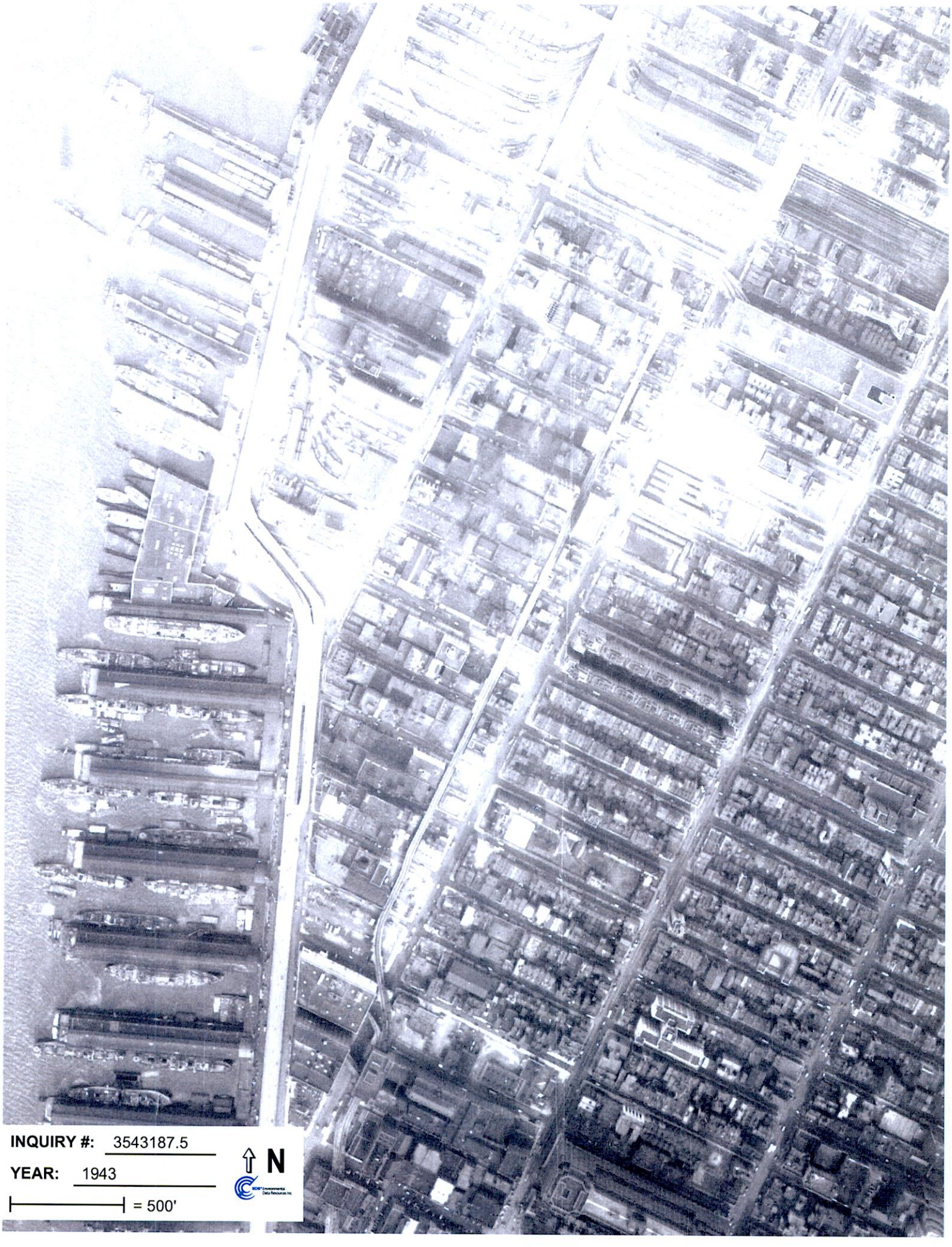
EDR Environmental Data Resources Inc



INQUIRY #: 3543187.5

YEAR: 1943

= 500'

N


INQUIRY #: 3543187.5
YEAR: 1954
= 500'
N

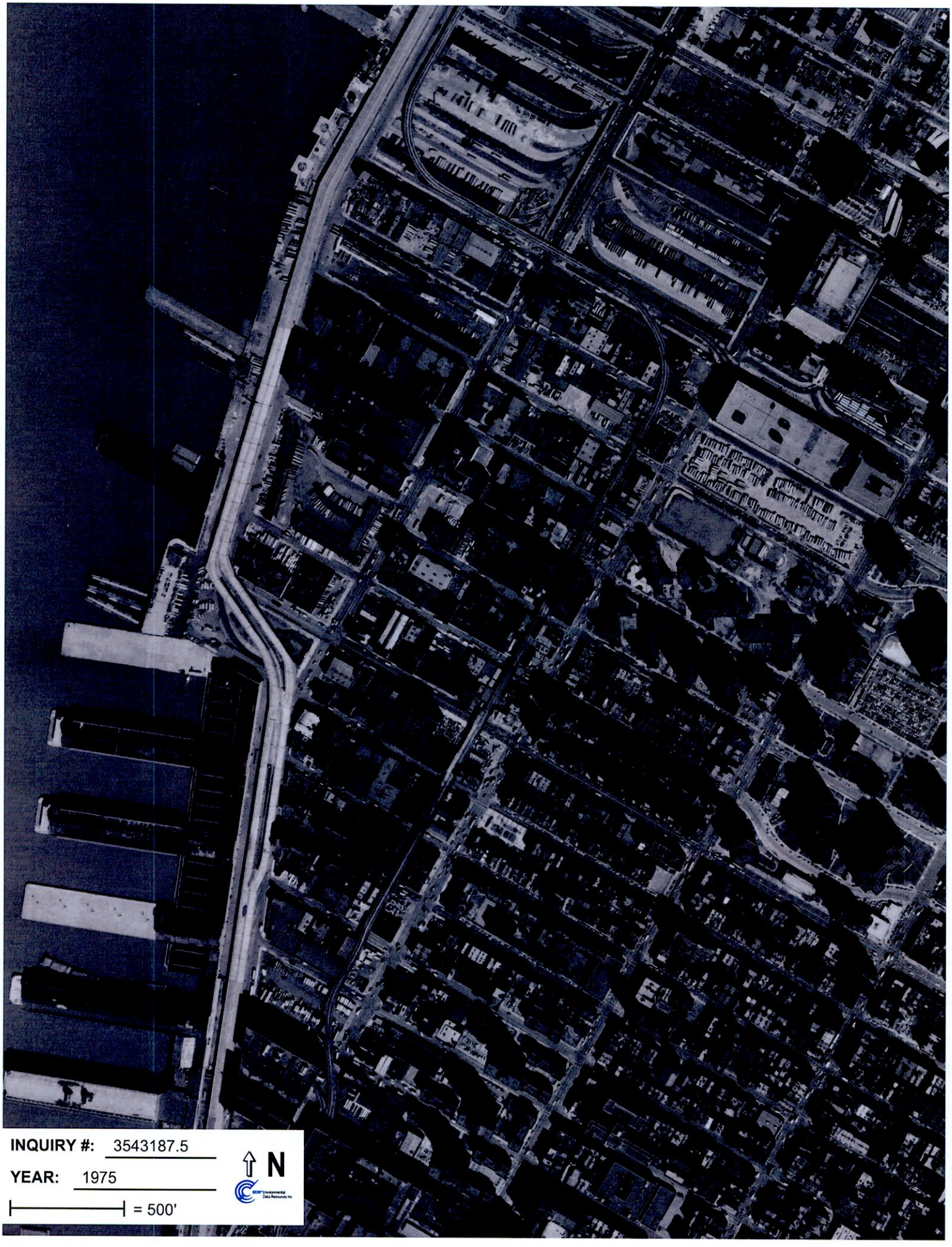
INQUIRY #: 3543187.5

YEAR: 1966

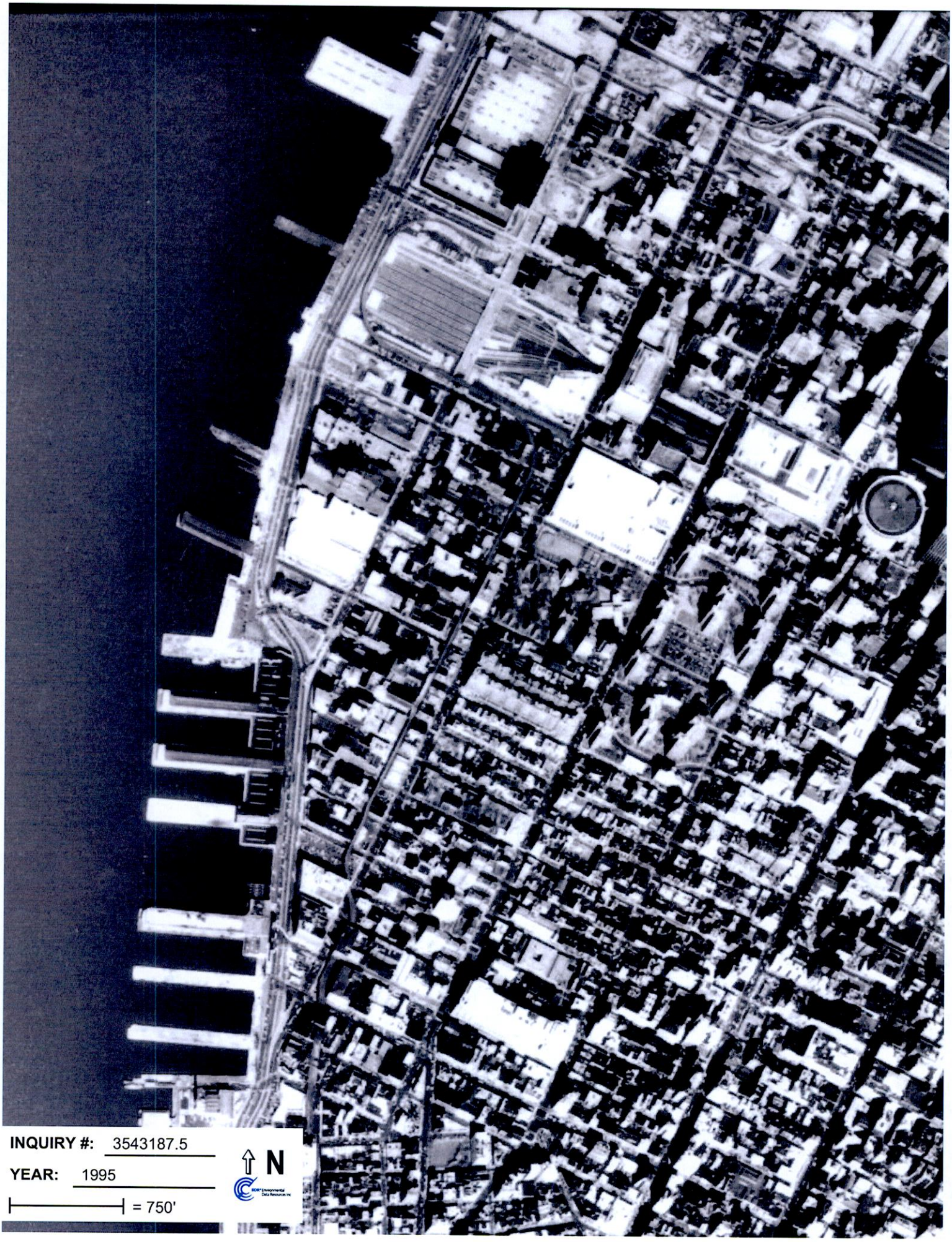
= 500'

N

EDR Environmental Data Resources Inc


INQUIRY #: 3543187.5
YEAR: 1975
= 500'
N


INQUIRY #: 3543187.5
YEAR: 1984
= 500'
N
EDR Environmental Data Resources Inc



INQUIRY #: 3543187.5

YEAR: 1995

= 750'

N

INQUIRY #: 3543187.5

YEAR: 1994,1995,1997 (DOQQ)

= 500'

N

EDR Environmental Data Resources Inc


INQUIRY #: 3543187.5
YEAR: 2006
= 500'
N


INQUIRY #: 3543187.5
YEAR: 2008
= 500'
N


INQUIRY #: 3543187.5
YEAR: 2009
= 500'
N


INQUIRY #: 3543187.5
YEAR: 2010
= 500'
N

INQUIRY #: 3543187.5

YEAR: 2011

= 500'

N

EDR Environmental Data Resources Inc

M9245
239 10TH AVENUE
New York, NY 10001

Inquiry Number: 3543187.6
March 13, 2013

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2012	Cole Information Services	X	X	X	-
2007	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Hill-Donnelly Information Services	X	X	X	-
2000	Cole Information Services	X	X	X	-
1998	NYNEX Telephone	-	X	X	-
1996	NYNEX	-	-	-	-
1993	NYNEX Telephone	X	X	X	-
1988	NYNEX Telephone	X	X	X	-
1983	New York Telephone	-	X	X	-
1978	New York Telephone	X	X	X	-
1973	New York Telephone	-	X	X	-
1968	New York Telephone	X	X	X	-
1963	New York Telephone	X	X	X	-
1958	New York Telephone	X	X	X	-
1956	New York Telephone	X	X	X	-
1950	New York Telephone	X	X	X	-
1947	New York Telephone	X	X	X	-
1942	New York Telephone	X	X	X	-
1938	New York Telephone	X	X	X	-
1934	R. L. Polk & Co.	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	X	X	-
1927	New York Telephone	X	X	X	-
1923	R. L. Polk & Co.	X	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1920	R. L. Polk & Co.	X	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	Type	Findings
239 10TH AVENUE	Client Entered	X
241 10TH AVENUE	Client Entered	X
243 10TH AVENUE	Client Entered	X
501 WEST 24TH STREET	Client Entered	X
503 WEST 24TH STREET	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

239 10TH AVENUE
New York, NY 10001

FINDINGS DETAIL

Target Property research detail.

10TH

239 10TH

Year	Uses	Source
1927	Carter L Mrs dry pl	New York Telephone

10TH AVE

239 10TH AVE

Year	Uses	Source
2012	EXPERT LOCKSMITH	Cole Information Services
	HIGHLINE PARK PLUMBING & HEATING	Cole Information Services
2006	A & R Petroleum Inc i	Hill-Donnelly Information Services
2000	C ERWIN DE LEON	Cole Information Services
	POWER TEST GAS STA	Cole Information Services
1993	POWER TEST GAS STATION	NYNEX Telephone
1988	EMBASSY LIMOUSINE SVCE	NYNEX Telephone
1978	JANISE GAS AND GO INC	New York Telephone
1968	VARICK SVCE STA INC	New York Telephone
1963	VARICK SVCE STA INC	New York Telephone
1958	CITIES SVCE 0IL CO	New York Telephone
	SHUMAN MORRIS SVCE STA	New York Telephone
	SHUMAN SVCE STA	New York Telephone
	SHUMANS SVCE STA	New York Telephone
1956	CITIES SVCE OIL CO	New York Telephone
	SHUMAN MORRIS SVCE STA	New York Telephone
1950	SHUMAN MORRIS SVCE STA	New York Telephone
1947	ORSON JOHN SVCE STA	New York Telephone
1942	FLEMING & ORSON SVCE STA	New York Telephone
	ORSON &FLEMING SVCE STA	New York Telephone
1938	CITIES SVCE OIL CO	New York Telephone

FINDINGS

Year	Uses	Source
1927	FRINK CO INC THE	New York Telephone
	Frink IP Inc reflctrs	New York Telephone
1923	Frink I P Inc NY Geo F Spencer pres Fred T Ward v p Wm H Spencer sec Melvin Spencer treas reflectors	R. L. Polk & Co.
	Spencer Melvin treas I P Frink Inc	R. L. Polk & Co.
	Ward Fredk T v p I P Frink Inc	R. L. Polk & Co.
1920	Frink I P Inc NY Geo F Spencer pres Fredk T Ward v p Melvin Spencer treas Wm H Spencer sec reflectors	R. L. Polk & Co.
	Spencer Wm H sec I P Frink Inc	R. L. Polk & Co.

10TH AVENUE

239 10TH AVENUE

Year	Uses	Source
2006	A & R Petroleum Inc i	Hill-Donnelly Information Services
2000	C ERWIN DE LEON	Cole Information Services
	POWER TEST GAS STA	Cole Information Services
1993	POWER TEST GAS STATION	NYNEX Telephone
1988	EMBASSY LIMOUSINE SVCE	NYNEX Telephone
1978	JANISE GAS AND GO INC	New York Telephone
1968	VARICK SVCE STA INC	New York Telephone
1963	VARICK SVCE STA INC	New York Telephone
1958	CITIES SVCE 0IL CO	New York Telephone
	SHUMAN MORRIS SVCE STA	New York Telephone
	SHUMAN SVCE STA	New York Telephone
	SHUMANS SVCE STA	New York Telephone
1956	CITIES SVCE OIL CO	New York Telephone
	SHUMAN MORRIS SVCE STA	New York Telephone
1950	SHUMAN MORRIS SVCE STA	New York Telephone
1947	ORSON JOHN SVCE STA	New York Telephone
1942	FLEMING & ORSON SVCE STA	New York Telephone
	ORSON &FLEMING SVCE STA	New York Telephone
1938	CITIES SVCE OIL CO	New York Telephone
1927	CARTER L MRS DRY PL	New York Telephone
	Frink Co Inc The	New York Telephone
	FRINK IP INC REFLCTRS	New York Telephone
1923	Frink I P Inc NY Geo F Spencer pres Fred T Ward v p Wm H Spencer sec Melvin Spencer treas reflectors	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1923	Spencer Melvin treas I P Frink Inc	R. L. Polk & Co.
	Ward Fredk T v p I P Frink Inc	R. L. Polk & Co.
1920	Frink I P Inc NY Geo F Spencer pres Fredk T Ward v p Melvin Spencer treas Wm H Spencer sec reflectors	R. L. Polk & Co.
	Spencer Wm H sec I P Frink Inc	R. L. Polk & Co.

E 10TH ST

239 E 10TH ST

Year	Uses	Source
2007	FASCET LLC	Cole Information Services
	MERCURY NETWORK COMMUNICATION	Cole Information Services

M9245
239-243 10TH AVENUE
New York, NY 10001

Inquiry Number: 3543187.4
March 13, 2013

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

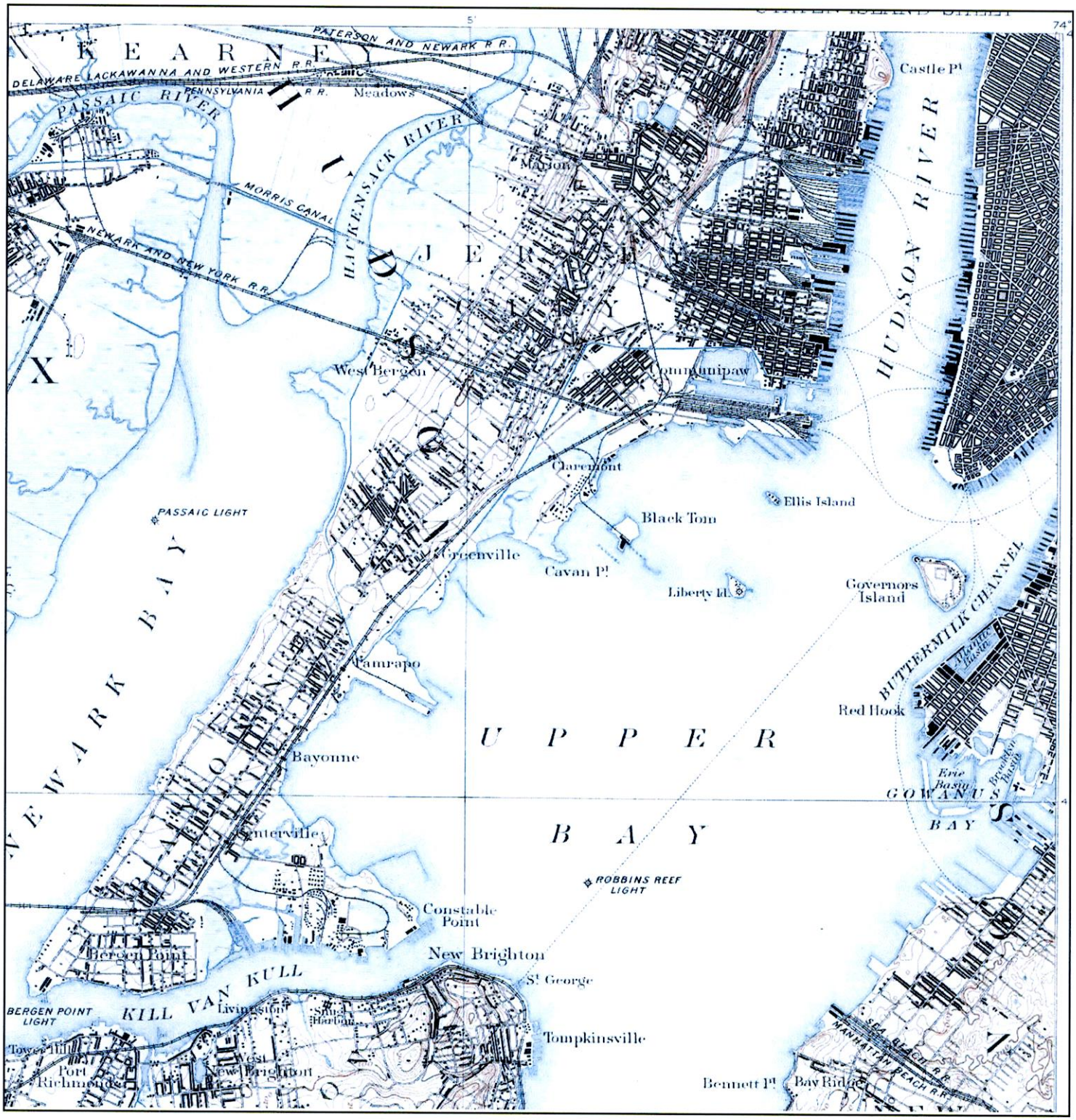
440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Historical Topographic Map



N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1891 SERIES: 15 SCALE: 1:62500	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map

N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1900 SERIES: 15 SCALE: 1:62500	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map

N	TARGET QUAD NAME: PASSAIC MAP YEAR: 1900 SERIES: 30 SCALE: 1:125000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

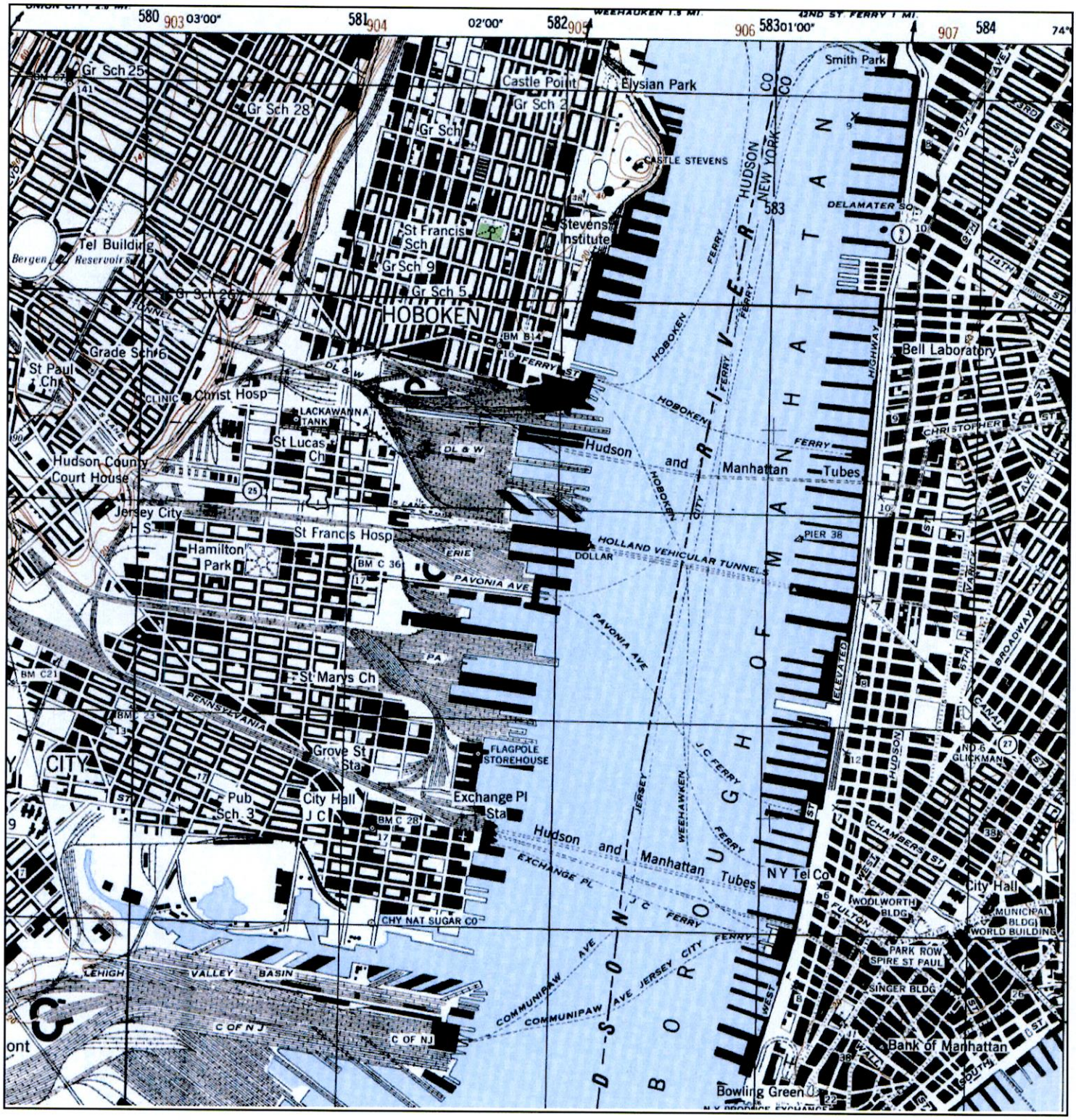
Historical Topographic Map

N	TARGET QUAD NAME: PASSAIC MAP YEAR: 1905 SERIES: 30 SCALE: 1:125000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map

N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1925 REVISED FROM :1900 SERIES: 15 SCALE: 1:62500	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map

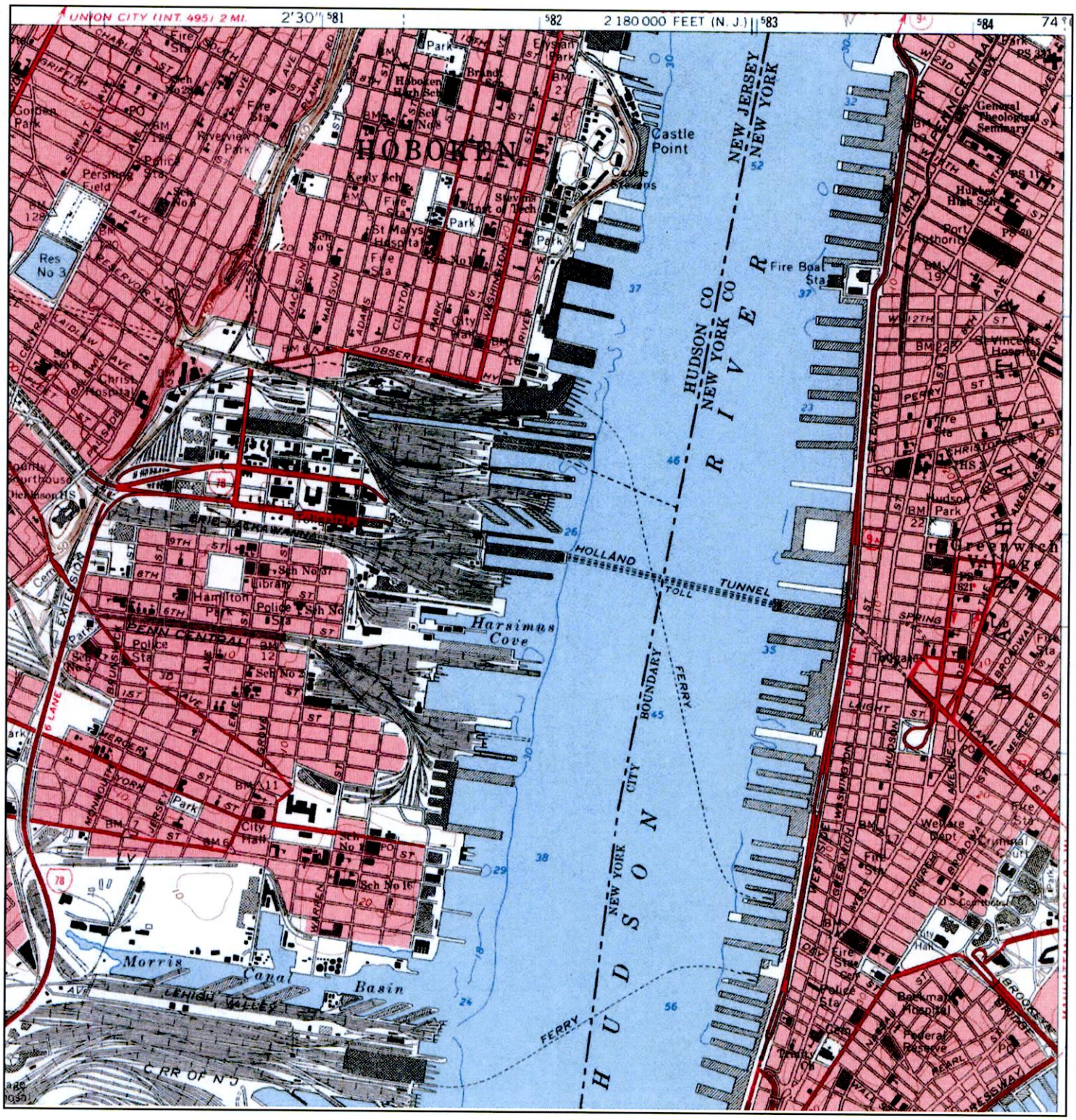


N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map

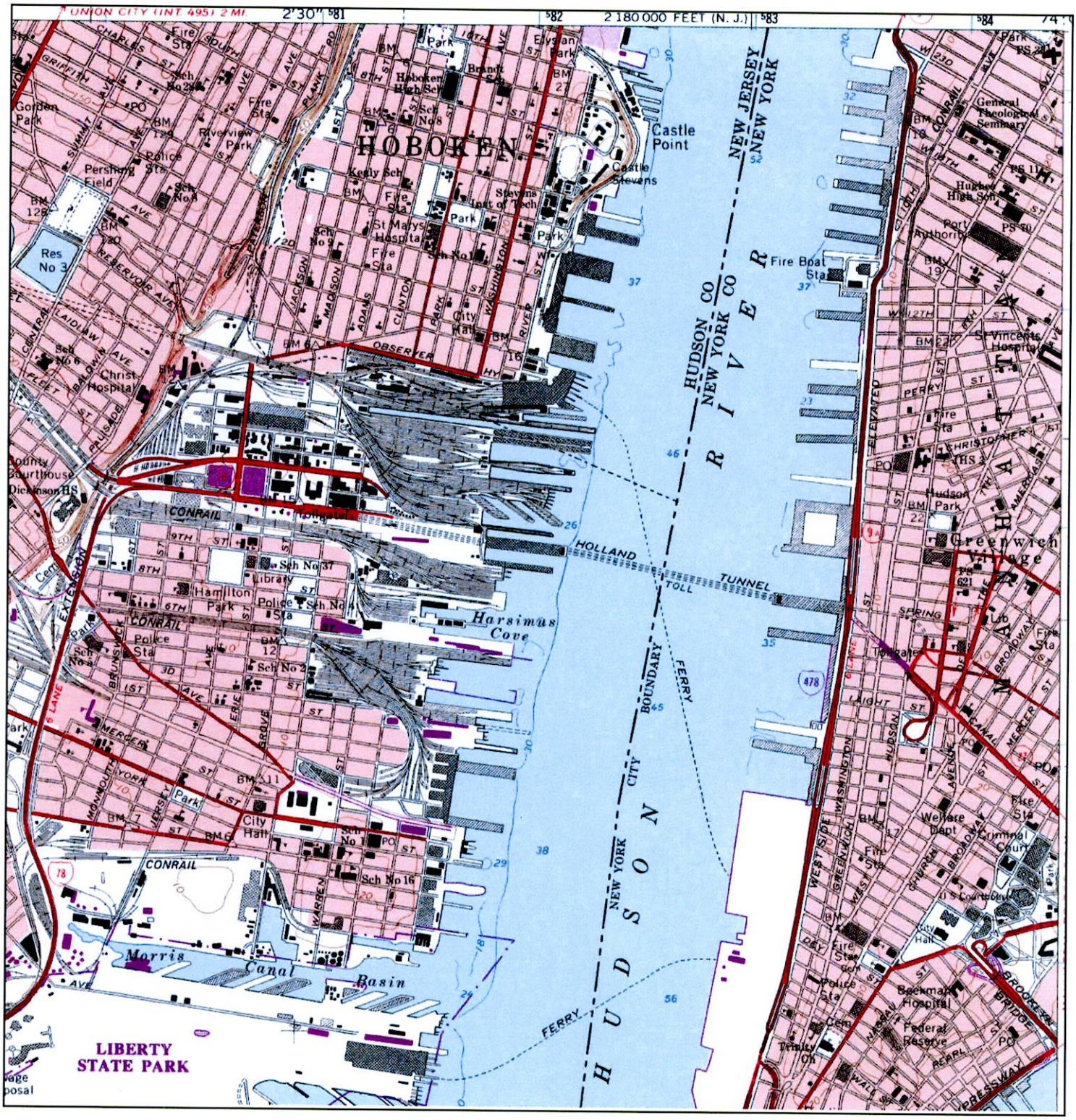
N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1955 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



N

TARGET QUAD
NAME: JERSEY CITY
MAP YEAR: 1981
PHOTOREVISED FROM :1967
SERIES: 7.5
SCALE: 1:24000

SITE NAME: M9245
ADDRESS: 239-243 10TH AVENUE
New York, NY 10001
LAT/LONG: 40.7485 / -74.0038

CLIENT: Merritt Environmental Consulting Corp.

CONTACT: KELLI CULLEN
INQUIRY#: 3543187.4
RESEARCH DATE: 03/13/2013

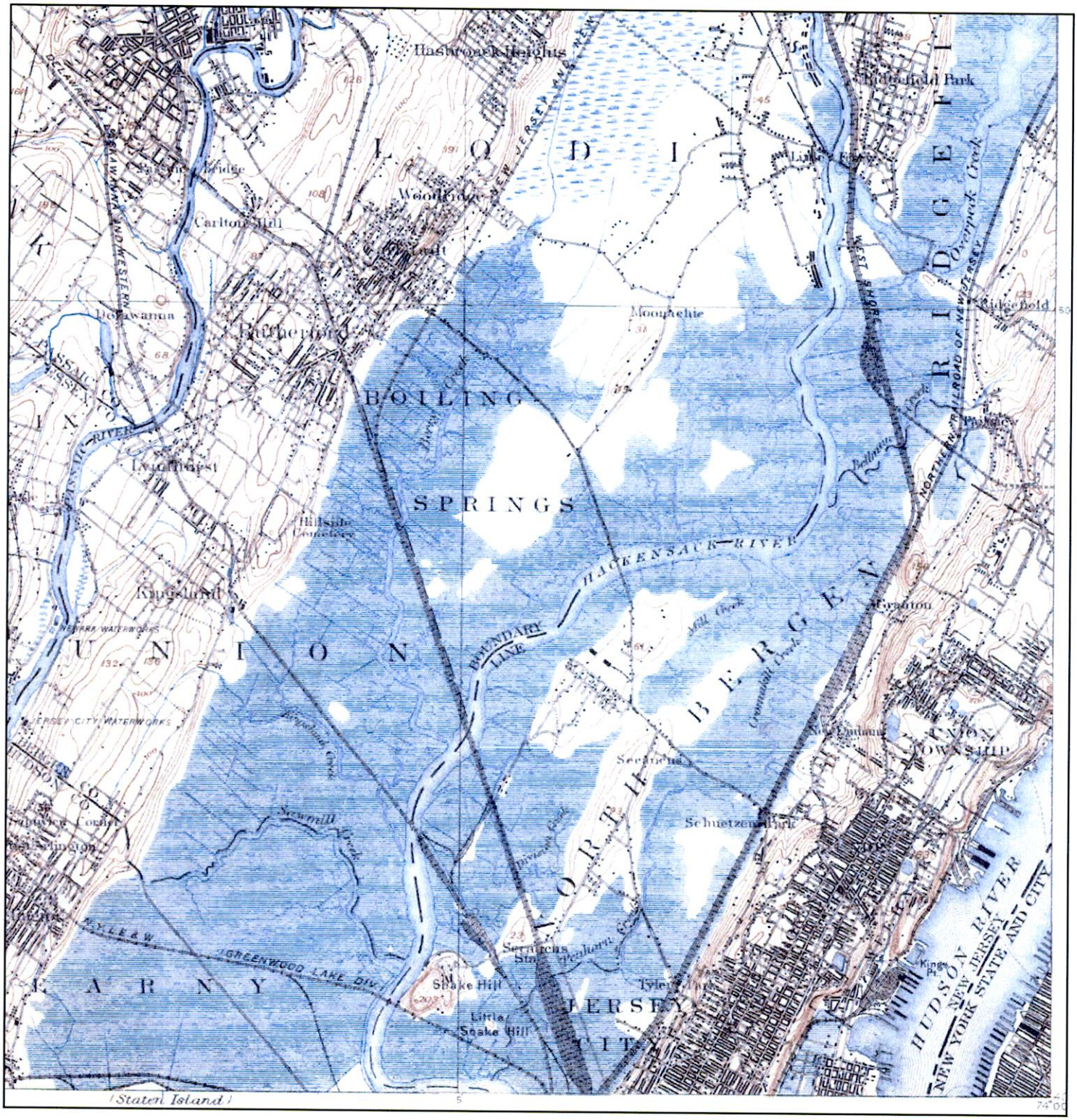
Historical Topographic Map

N	ADJOINING QUAD NAME: HARLEM MAP YEAR: 1897 SERIES: 15 SCALE: 1:62500	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map

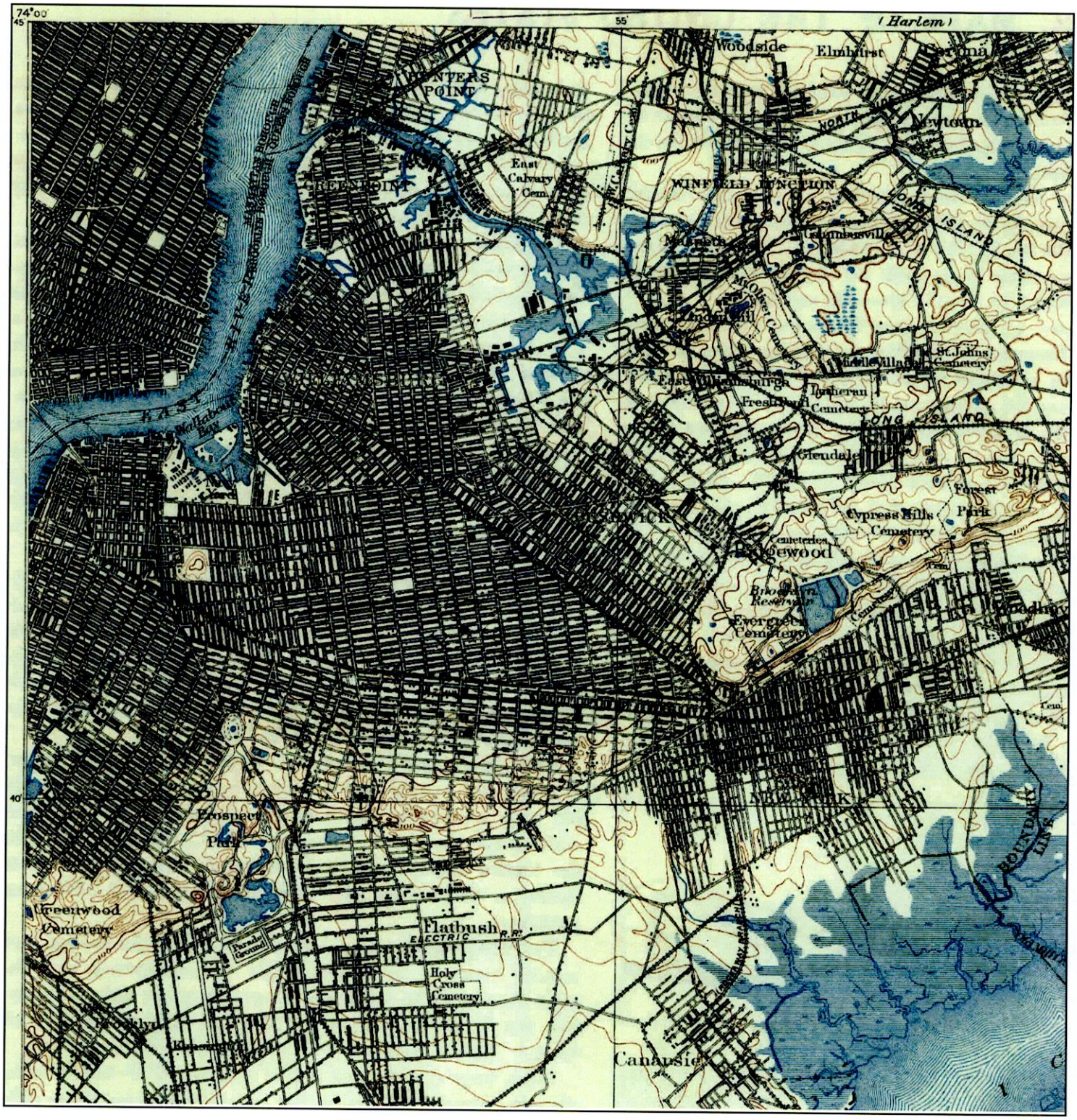
N	ADJOINING QUAD NAME: BROOKLYN MAP YEAR: 1900 SERIES: 15 SCALE: 1:62500	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



N	ADJOINING QUAD NAME: PATERSON MAP YEAR: 1903 SERIES: 15 SCALE: 1:62500	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



N	ADJOINING QUAD NAME: BROOKLYN MAP YEAR: 1924 REVISED FROM :1900 SERIES: 15 SCALE: 1:62500	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

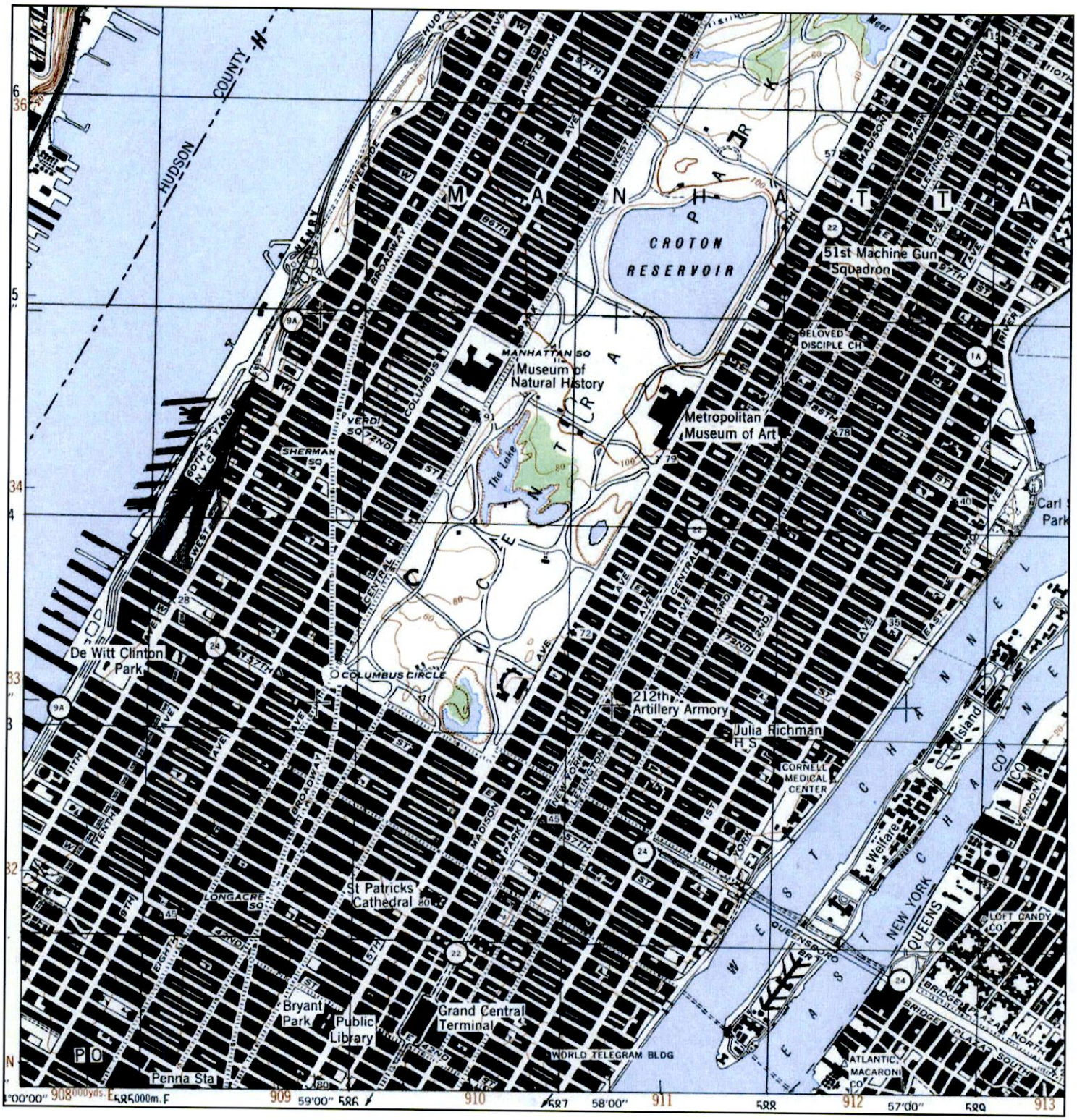
Historical Topographic Map

N	ADJOINING QUAD		
	NAME: WEEHAWKEN	SITE NAME: M9245	CLIENT: Merritt Environmental Consulting Corp.
	MAP YEAR: 1940	ADDRESS: 239-243 10TH AVENUE New York, NY 10001	CONTACT: KELLI CULLEN
	SERIES: 7.5	LAT/LONG: 40.7485 / -74.0038	INQUIRY#: 3543187.4
	SCALE: 1:31680		RESEARCH DATE: 03/13/2013

Historical Topographic Map

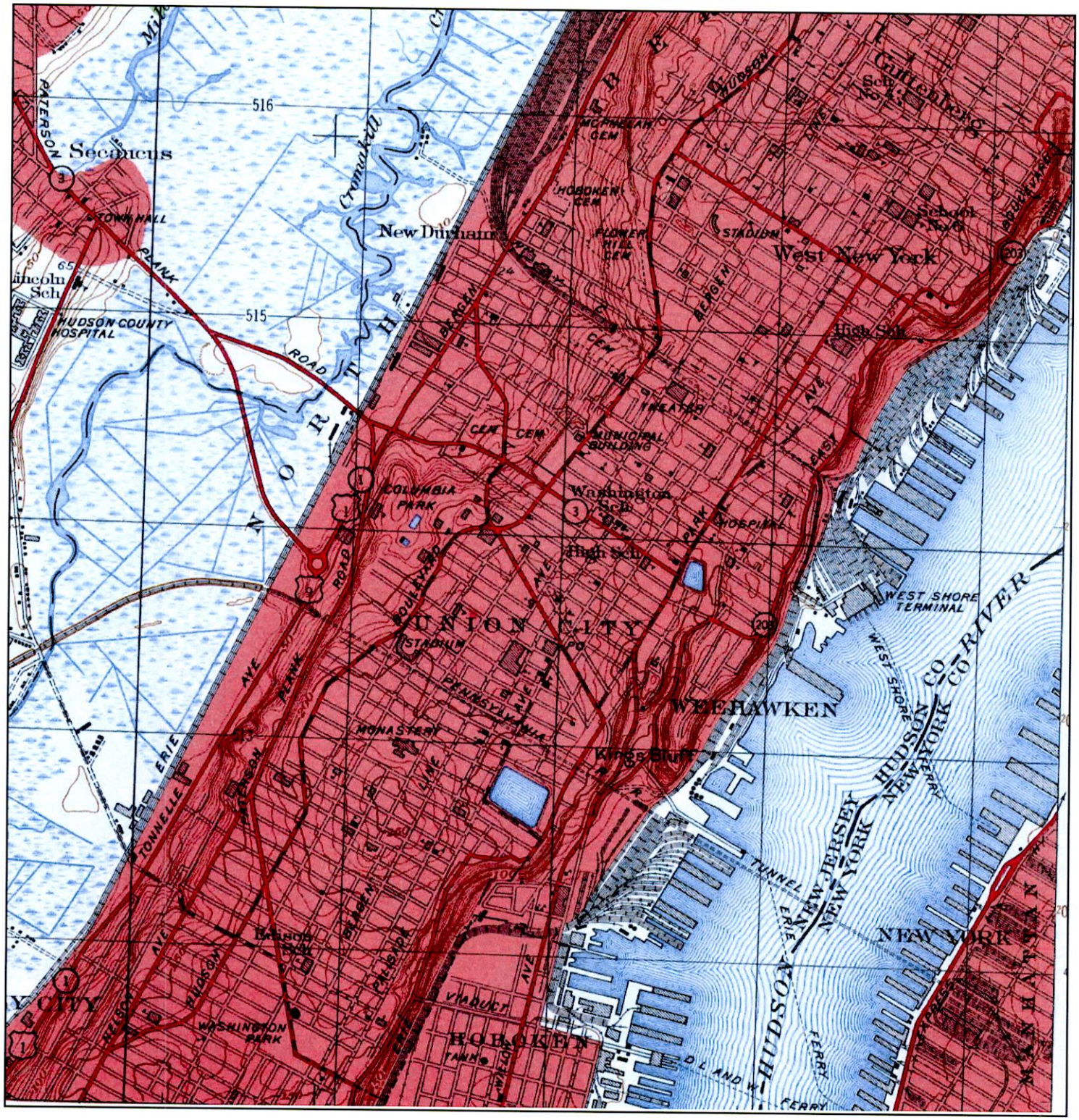
N	ADJOINING QUAD		
	NAME: BROOKLYN	SITE NAME: M9245	CLIENT: Merritt Environmental Consulting Corp.
	MAP YEAR: 1947	ADDRESS: 239-243 10TH AVENUE New York, NY 10001	CONTACT: KELLI CULLEN
	SERIES: 7.5	LAT/LONG: 40.7485 / -74.0038	INQUIRY#: 3543187.4
	SCALE: 1:25000		RESEARCH DATE: 03/13/2013

Historical Topographic Map



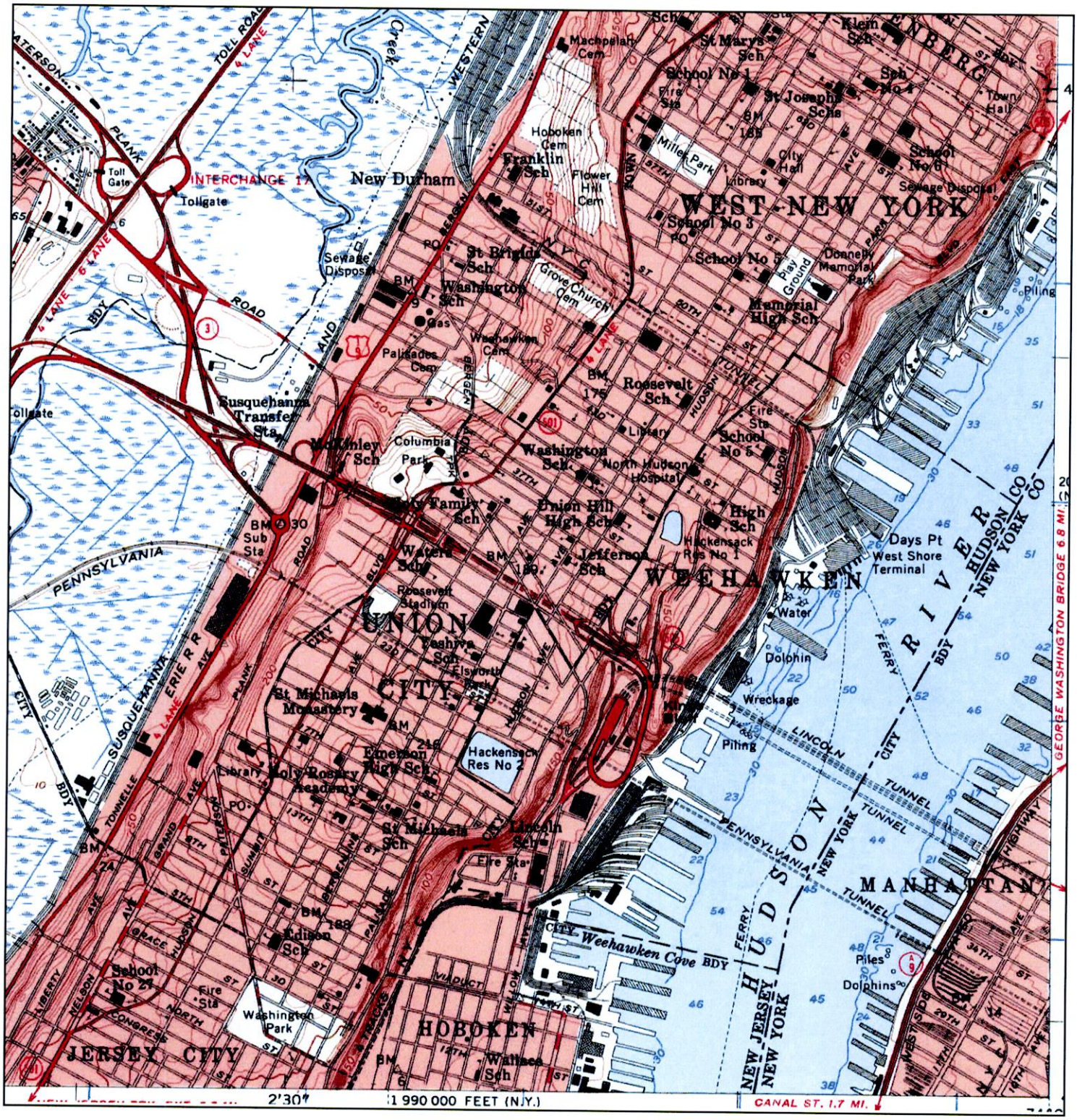
N	ADJOINING QUAD NAME: CENTRAL PARK MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



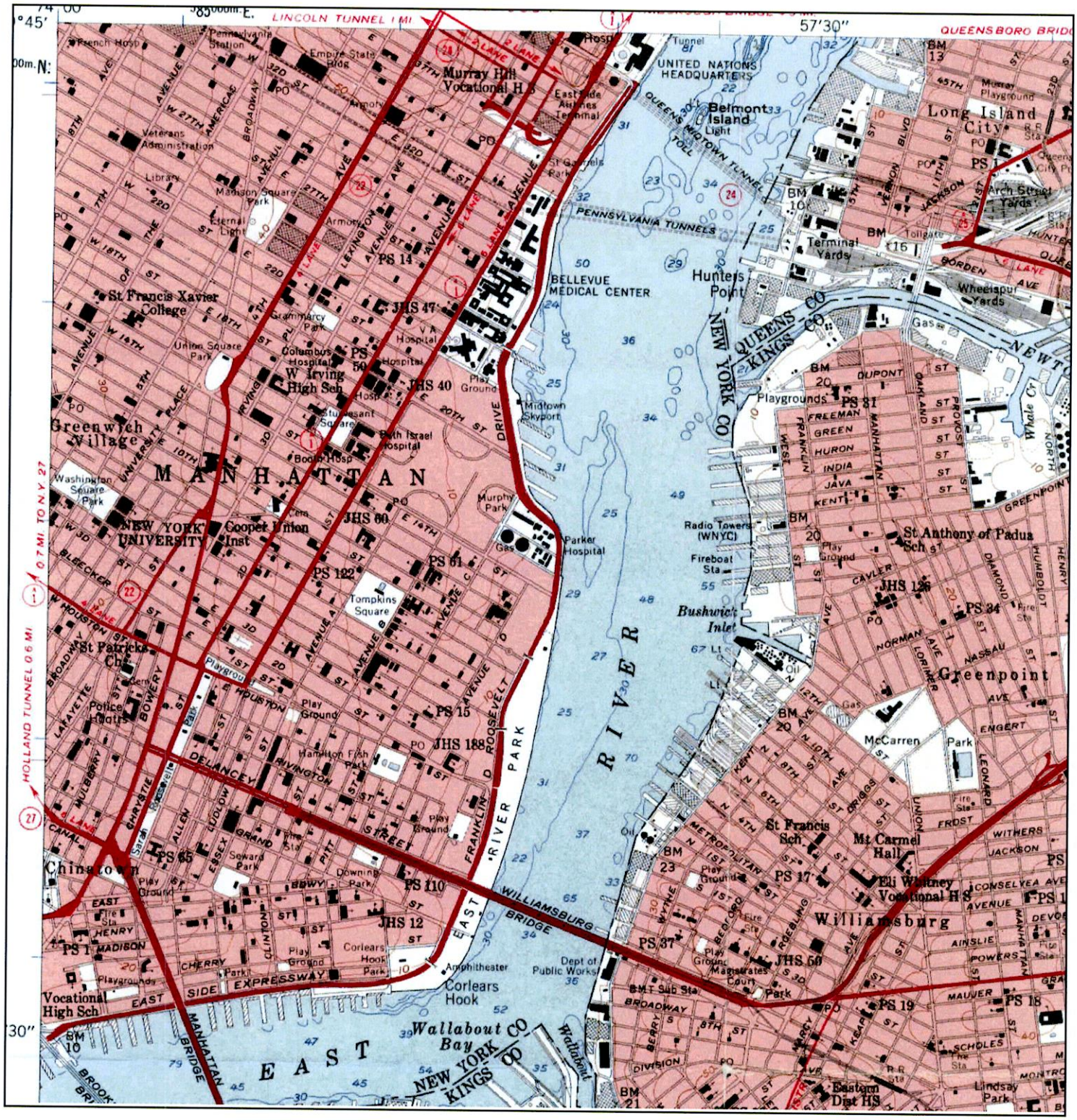
N			
	ADJOINING QUAD NAME: WEEHAWKEN MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



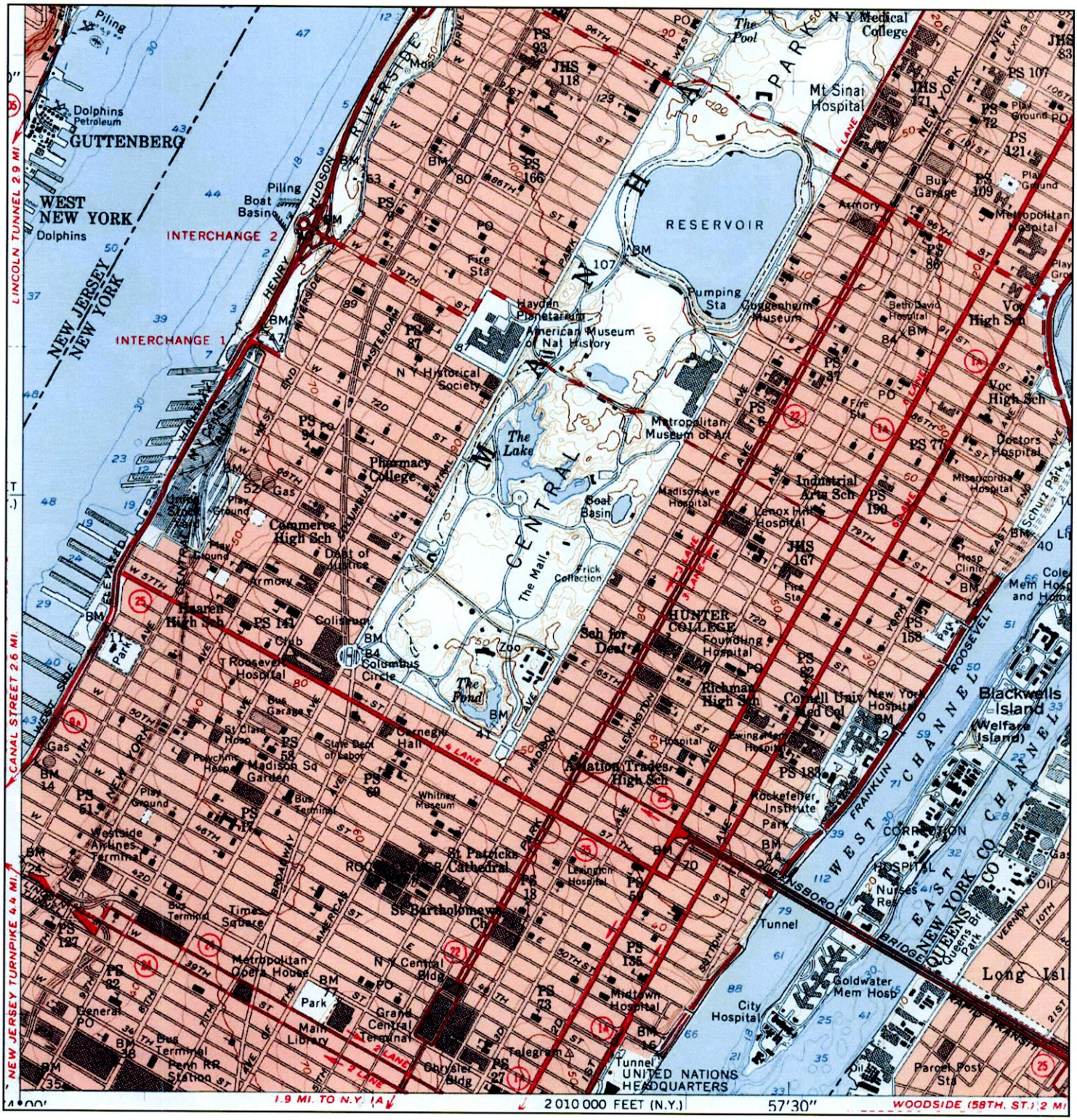
N	ADJOINING QUAD				
	NAME:	PATERSON AND VICINITY	SITE NAME:	M9245	CLIENT: Merritt Environmental Consulting Corp.
	MAP YEAR:	1955	ADDRESS:	239-243 10TH AVENUE New York, NY 10001	CONTACT: KELLI CULLEN
	SERIES:	7.5	LAT/LONG:	40.7485 / -74.0038	INQUIRY#: 3543187.4
	SCALE:	1:24000			RESEARCH DATE: 03/13/2013

Historical Topographic Map



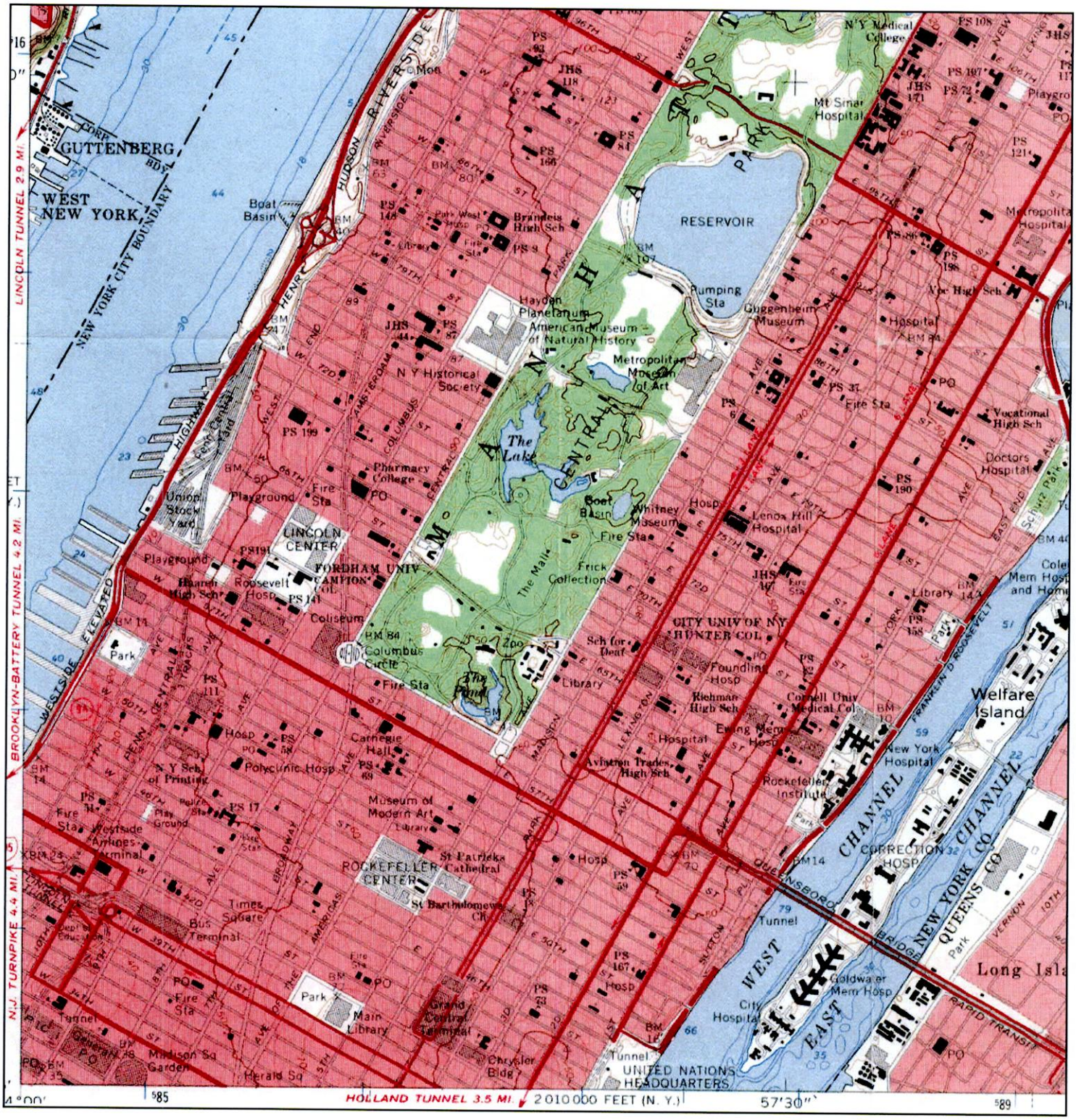
N	ADJOINING QUAD NAME: BROOKLYN MAP YEAR: 1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



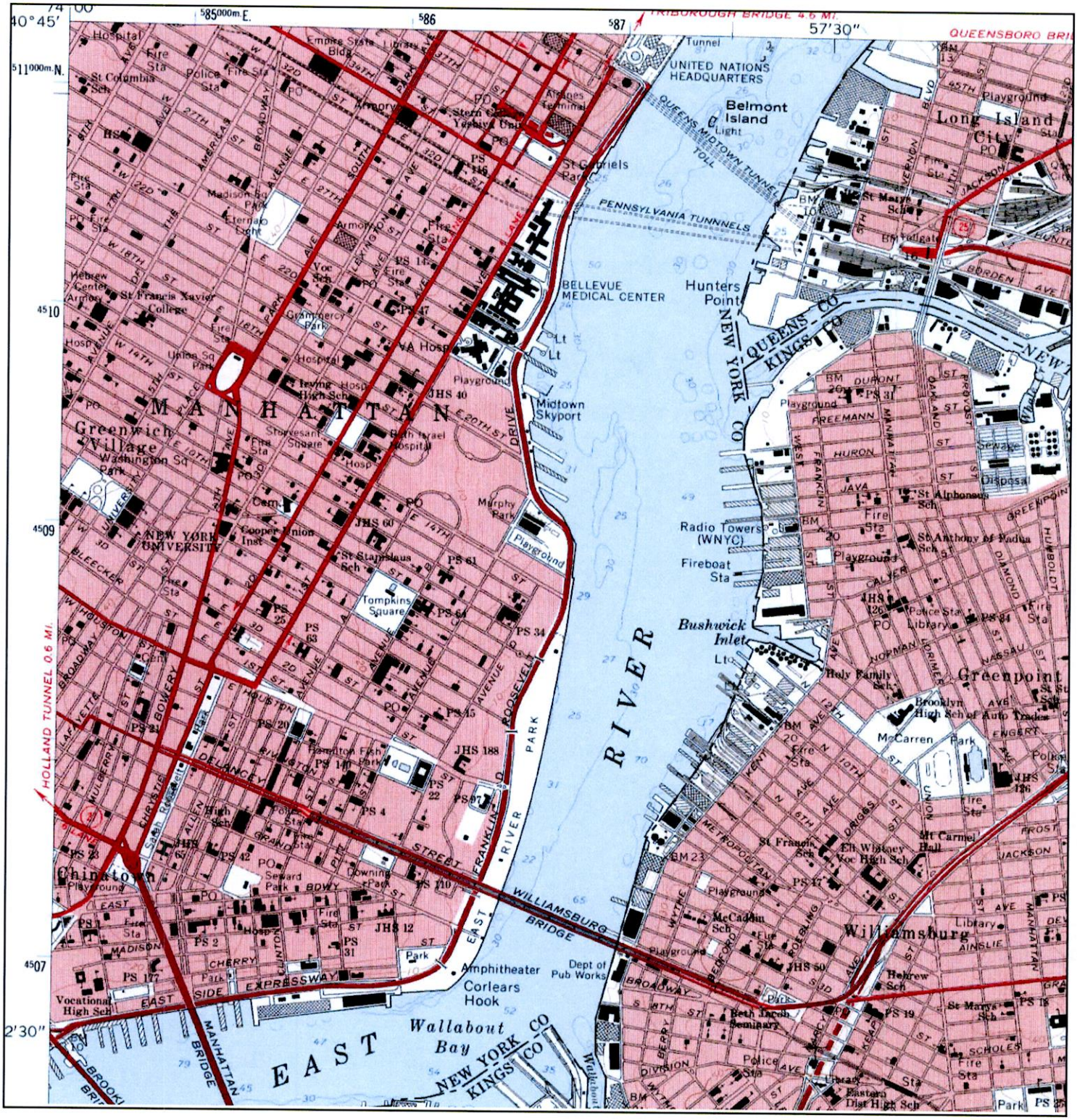
N	ADJOINING QUAD NAME: CENTRAL PARK MAP YEAR: 1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



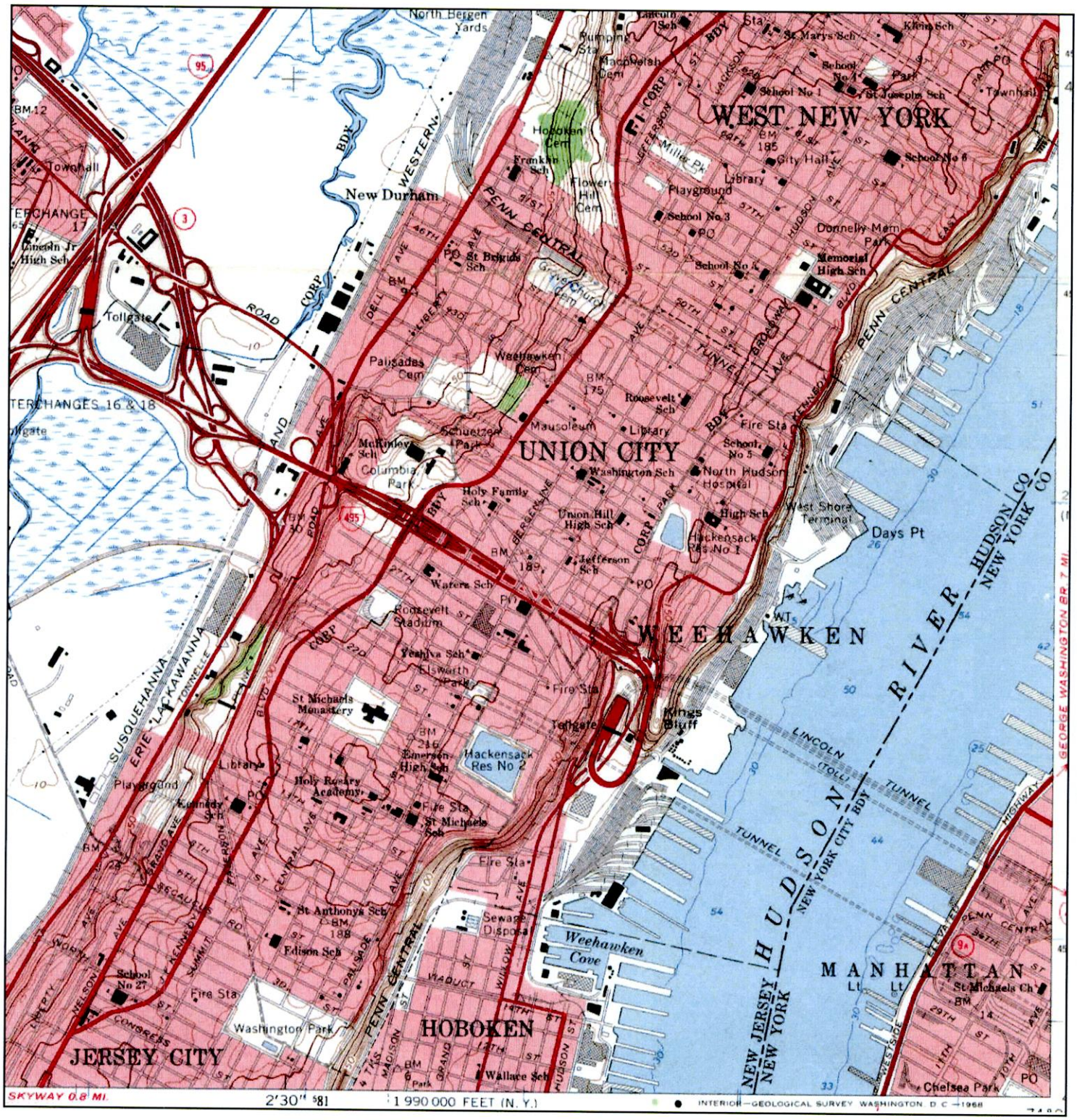
N	ADJOINING QUAD NAME: CENTRAL PARK MAP YEAR: 1966 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



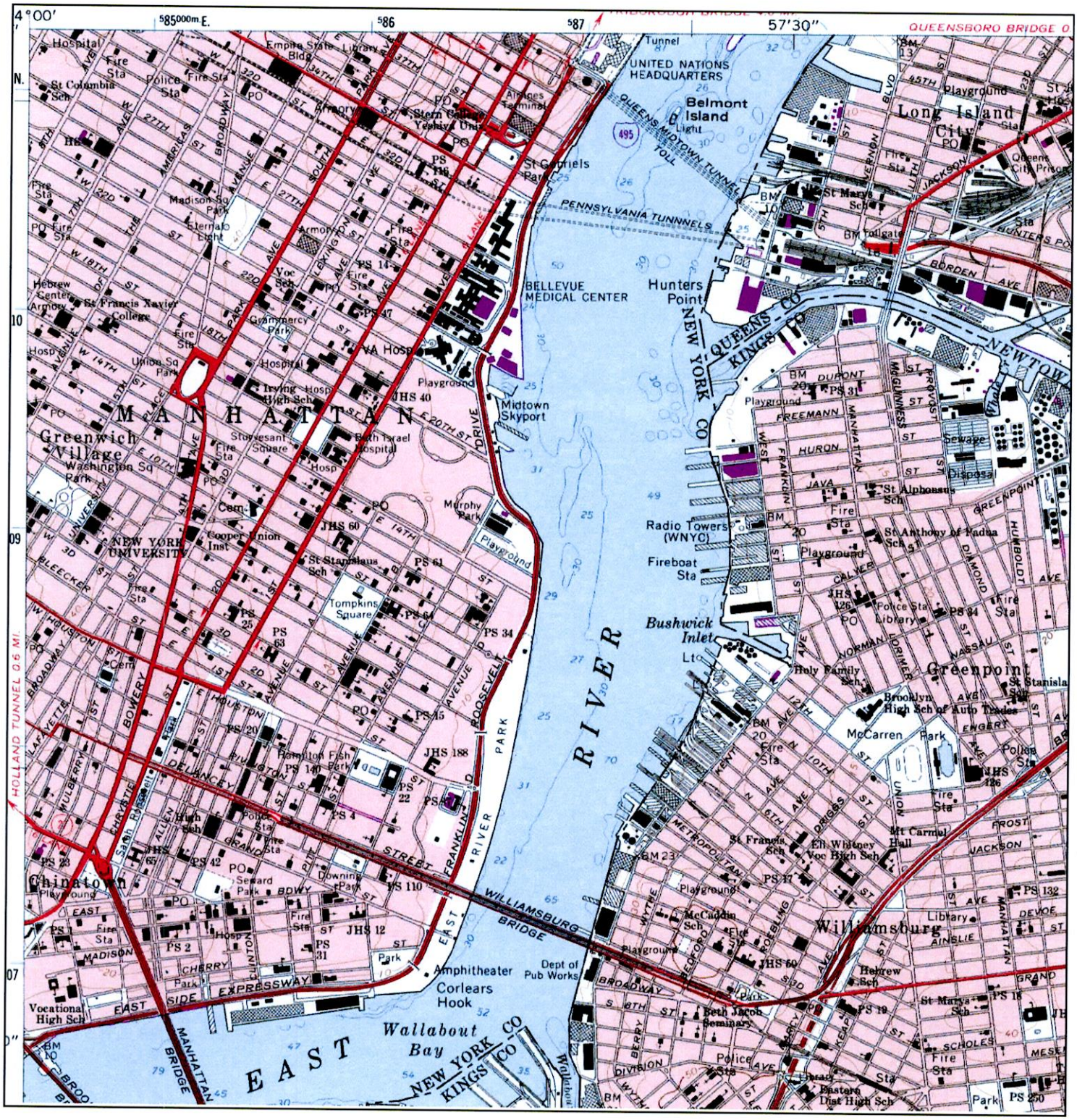
N			
	ADJOINING QUAD NAME: BROOKLYN MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



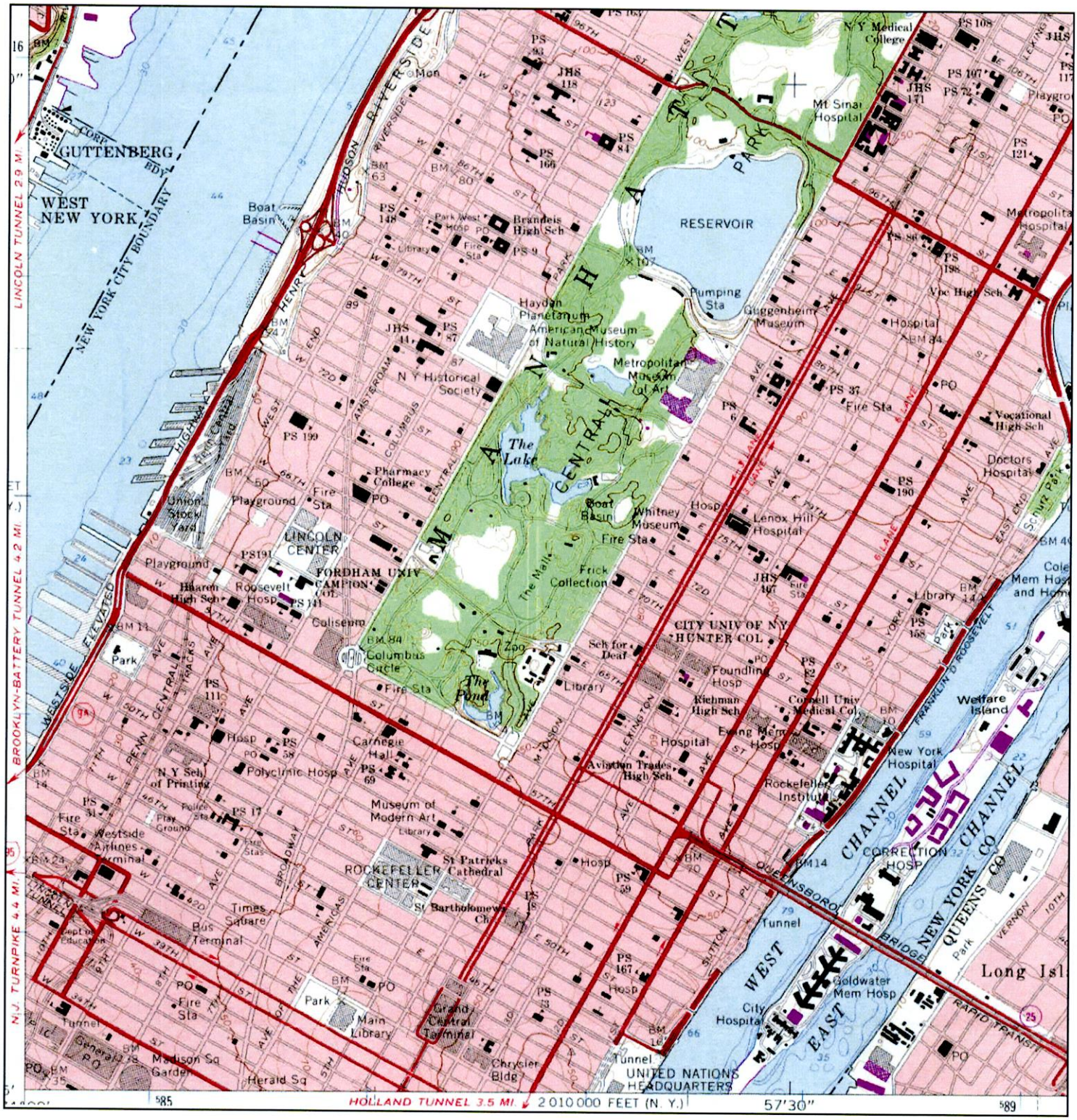
N	ADJOINING QUAD NAME: WEEHAWKEN MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



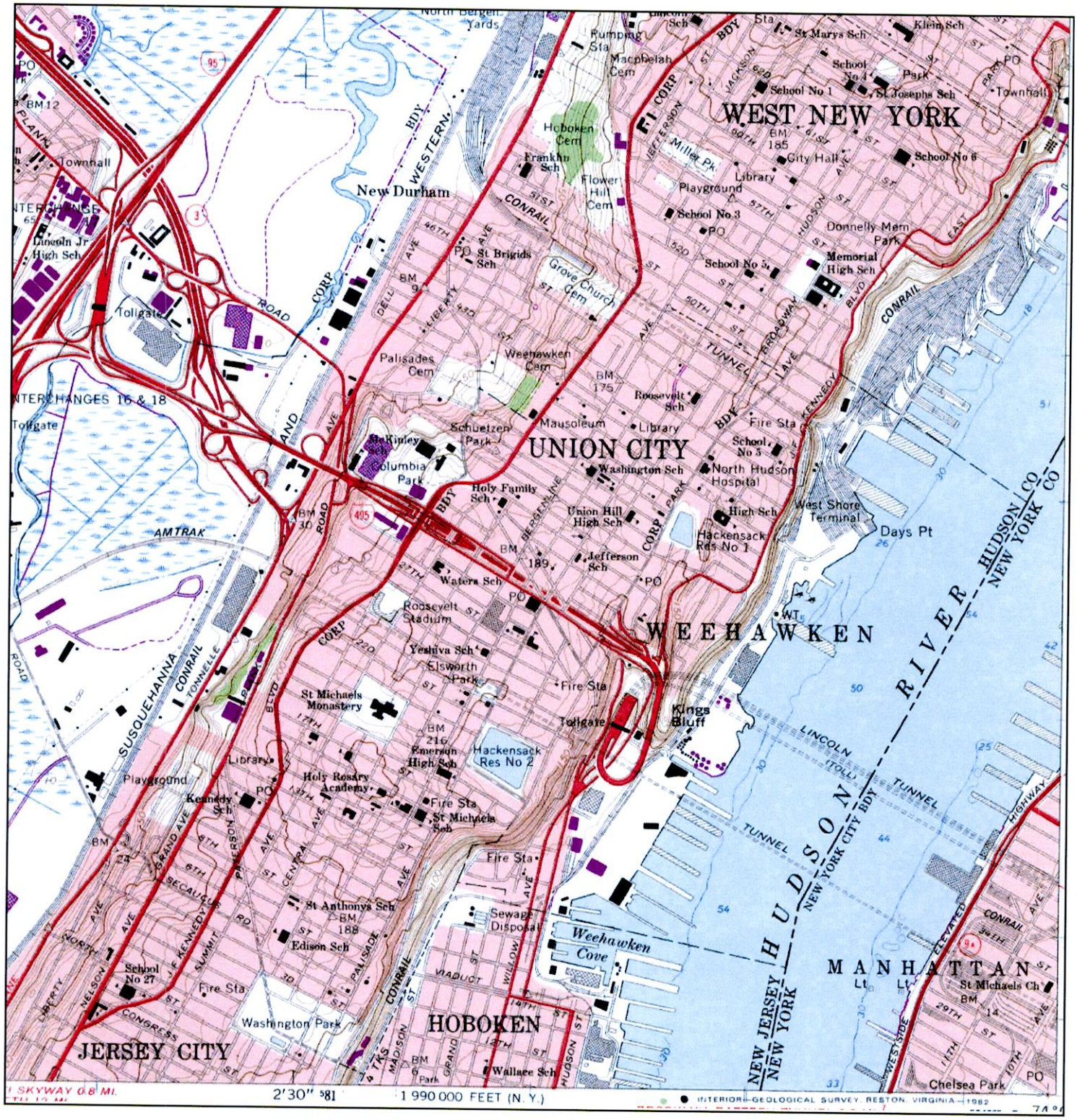
N	ADJOINING QUAD NAME: BROOKLYN MAP YEAR: 1979 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



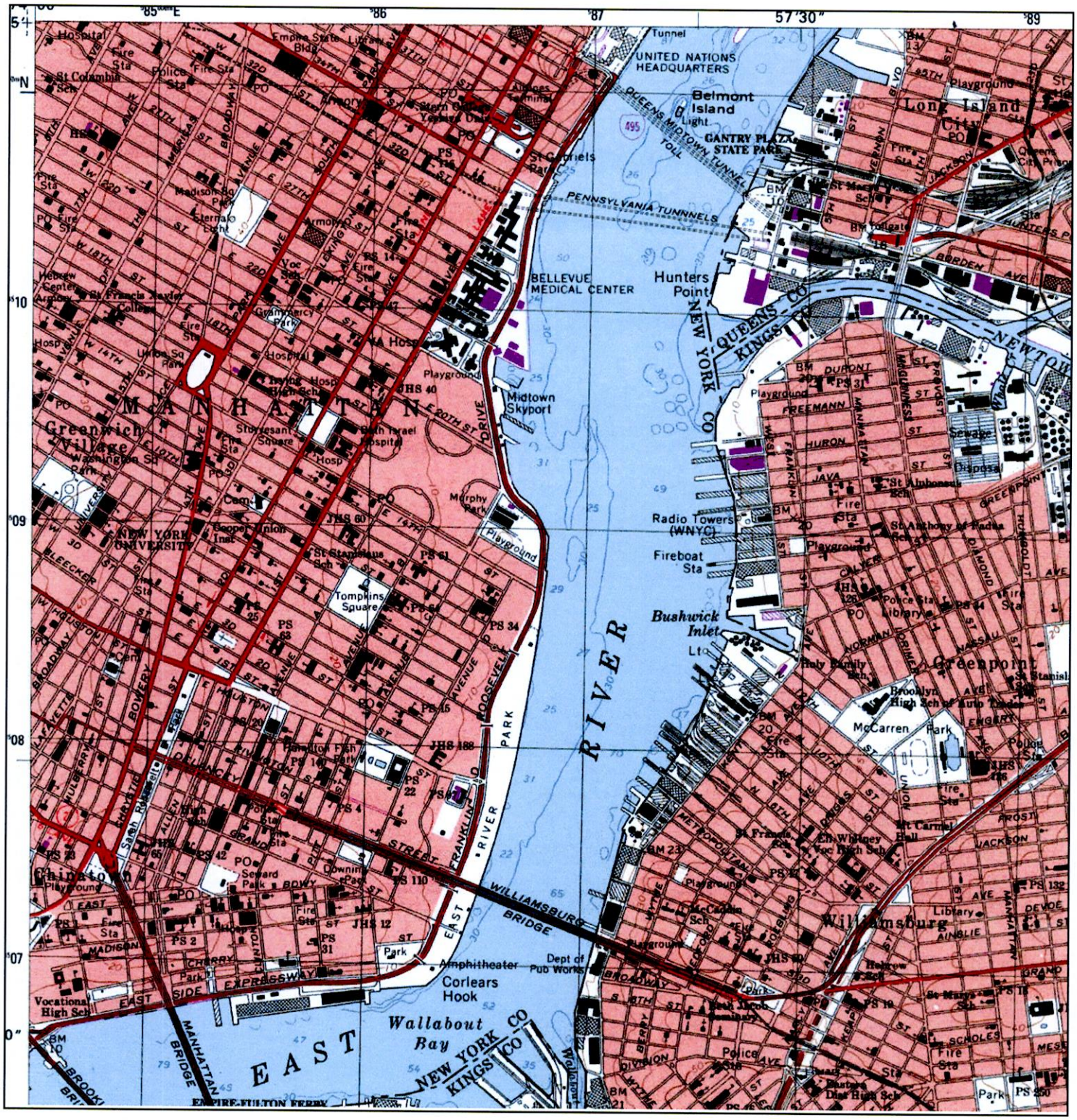
N	ADJOINING QUAD NAME: CENTRAL PARK MAP YEAR: 1979 PHOTOREVISED FROM :1966 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



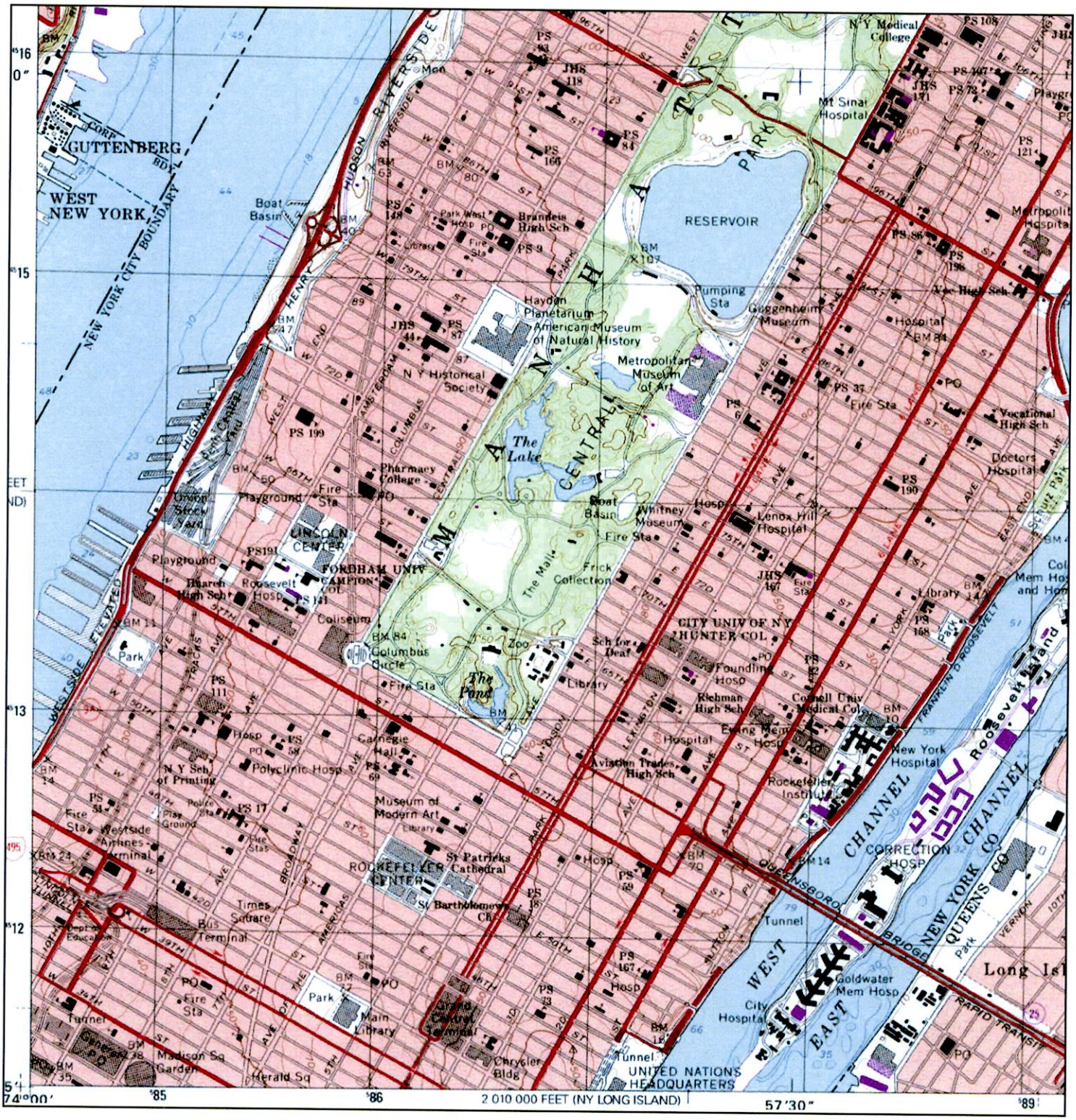
N	ADJOINING QUAD NAME: WEEHAWKEN MAP YEAR: 1981 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



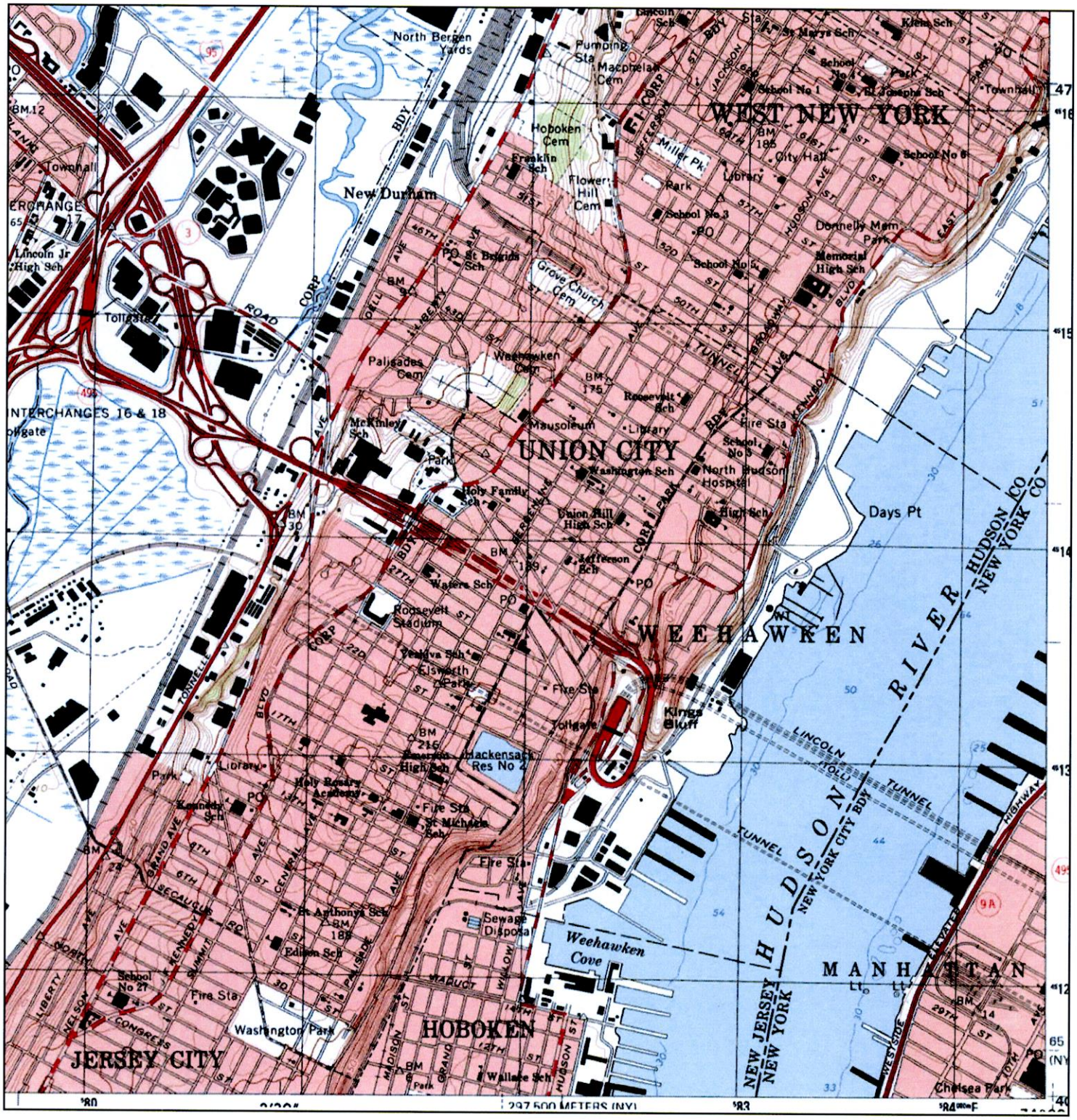
N	ADJOINING QUAD NAME: BROOKLYN MAP YEAR: 1995 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



N	ADJOINING QUAD NAME: CENTRAL PARK MAP YEAR: 1995 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

Historical Topographic Map



N	ADJOINING QUAD NAME: WEEHAWKEN MAP YEAR: 1995 SERIES: 7.5 SCALE: 1:24000	SITE NAME: M9245 ADDRESS: 239-243 10TH AVENUE New York, NY 10001 LAT/LONG: 40.7485 / -74.0038	CLIENT: Merritt Environmental Consulting Corp. CONTACT: KELLI CULLEN INQUIRY#: 3543187.4 RESEARCH DATE: 03/13/2013

INTERVIEW DOCUMENTATION

MERRITT Environmental Consulting Corp.
77 Arkay Drive, Suite D, Hauppauge, NY 11788
(631) 617-6200/Tel (631) 617-6201/Fax

Address: 239-243 10th Ave Project # M 9245

Description: 1 story store + gas station

Person Interviewed:

QUESTION	OWNER\OWNER'S REPRESENTATIVE			OCCUPANT \ MANAGER \ OTHER			OBSERVED DURING SITE VISIT		
	YES	NO	UNK	YES	NO	UNK	YES	NO	UNK
1a. Is the property used for an industrial use?								X	
1b. Is any adjoining property used for an industrial use?								X	
2a. Did you observe evidence or do you have any prior knowledge that the property has been used for an industrial use in the past?								X	
2b. Did you observe evidence or do you have any prior knowledge that an adjoining property has been used for an industrial use in the past?								X	
3a. Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?							X		

QUESTION	OWNER\OWNER'S REPRESENTATIVE			OCCUPANT \ MANAGER \ OTHER			OBSERVED DURING SITE VISIT		
	YES	NO	UNK	YES	NO	UNK	YES	NO	UNK
3b. Is any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?								Y	
4a. Did you observed evidence or do you have any prior knowledge that the property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?							Y		
4b. Did you observe evidence or do you have any prior knowledge that an adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?									Y
5a. Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?								Y	
5b. Did you observe evidence or do you have any prior knowledge there have been previously any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?								Y	

QUESTION	OWNER\OWNER'S REPRESENTATIVE			OCCUPANT \ MANAGER \ OTHER			OBSERVED DURING SITE VISIT		
	YES	NO	UNK	YES	NO	UNK	YES	NO	UNK
6a. Are there currently any industrial drums (typically 55 gal (208 L) or sacks of chemicals located on the property or at the facility?							X		
							2- 55gal		
6b. Did you observe evidence or do you have any prior knowledge that there have been previously any industrial drums (typically 55 gal (208 L) or sacks of chemicals located on the property or at the facility?									X
7a. Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that originated from a contaminated site?									X
7b. Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that is of an unknown origin?									X
8a. Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?								X	
8b. Did you observe evidence or do you have any prior knowledge that there have been previously any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?								X	

QUESTION	OWNER\OWNER'S REPRESENTATIVE			OCCUPANT \ MANAGER \ OTHER			OBSERVED DURING SITE VISIT		
	YES	NO	UNK	YES	NO	UNK	YES	NO	UNK
9a. Is there currently any stained soil on the property?									Y
9b. Did you observe evidence or do you have any prior knowledge that there has been previously, any stained soil on the property?									Y
10a. Are there currently any registered or unregistered storage tanks (above or underground) located on the property?							Y		
10b. Did you observe evidence or do you have any prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) located on the property?							Y		
11a. Are there currently any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?							Y		
11b. Did you observe evidence or do you have any prior knowledge that there have been previously any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?							Y		

QUESTION	OWNER\OWNER'S REPRESENTATIVE			OCCUPANT \ MANAGER \ OTHER			OBSERVED DURING SITE VISIT		
	YES	NO	UNK	YES	NO	UNK	YES	NO	UNK
12a. Are there currently any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?								Y	
12b. Did you observe evidence or do you have any prior knowledge that there have been previously any flooring, drains, or walls within the facility that were stained by substances other than water or were emitting foul odors?								X	
13a. If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well system that exceed guidelines applicable to the water system?								N	
13b. If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental / health agency?								Y	
14. Does the owner or occupant of the property have any knowledge or environmental liens or governmental notifications relating to past or recurrent violations or environmental laws as respect to the property or any facility located on the property?									Y
15a. Has the owner or occupant of the property been informed of the past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?									N

QUESTION	OWNER\OWNER'S REPRESENTATIVE			OCCUPANT \ MANAGER \ OTHER			OBSERVED DURING SITE VISIT		
	YES	NO	UNK	YES	NO	UNK	YES	NO	UNK
15b. Has the owner or occupant of the property been informed of the current existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?									Y
15c. Has the owner or occupant of the property been informed of the past existence of environmental violations with respect to the property or any facility located on the property?									Y
15d. Has the owner or occupant of the property been informed of the current existence of environmental violations with respect to the property or any facility located on the property?									Y
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?									Y
17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum product involving the property by any owner or occupant of the property?									X

QUESTION	OWNER\OWNER'S REPRESENTATIVE			OCCUPANT \ MANAGER \ OTHER			OBSERVED DURING SITE VISIT		
	YES	NO	UNK	YES	NO	UNK	YES	NO	UNK
18a. Does the property discharge waste water on or adjacent to the property, other than storm water, into a storm water sewer system?								X	
18b. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system?								X	
19. Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the property?								X	
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?								X	
NON-SCOPE ITEMS									
1. Did you observe any suspect asbestos containing material? If yes, see report								X	
2. Did you observe evidence of peeling or cracking paint? If yes, see report								X	
3. Did you observe evidence of a lead water main? If yes, see report								X	

QUALIFICATIONS

Charles G. Merritt
President

As Merritt Environmental Consulting Corp.'s Principal and Senior Certified Environmental Specialist (CES), Mr. Merritt supervises all aspects of environmental assessments (Phase I & Transaction Screen) reports. These assessments include on site property evaluations, site interviews, reviews of regulatory data, and public records to identify environmental concerns. Mr. Merritt has received extensive training, professional certifications, and over 20 years of industry experience; providing a range of diversified environmental services for a wide variety of clients.

Areas of Expertise:

- Phase I Environmental Site Assessments (ESA) E1527-00 & E1527-05 (All Appropriate Inquiry "AAI" standards)
- Provide peer review of environmental reports for lending institutions
- Supervise Site Remediations
- Review of all Environmental Reports prepared
- Client Liaison

Professional Experience:

- Conduct Environmental Site Assessments (ESA's) for lending institutions, property owners, insurance companies and private investors conducting due diligence investigations
- Perform asbestos, lead-based paint, mold and radon surveys

Education/Certificates/Membership

- Adelphi University
  Bachelor of Business Administration **May 1988**

Certifications and Affiliation:

- LEED AP
- ASTM Technical & Professional Training
- Certified Environmental Specialist (CES) EAA #10770

John Perotti
Project Manager

As an experienced Certified Environmental Specialist (CES), Mr. Perotti performs Phase I Environmental Site Assessments (ESA) and Transaction Screens for the Tri-State region. The environmental assessments include on site property inspections, reviews of regulatory data, and historical data to identify environmental concerns.

Areas of Expertise:

- Phase I Environmental Site Assessments (ESA) E1527-00 & E1527-05 (All Appropriate Inquiry "AAI" standards)
- Environmental Transaction Screens
- Asbestos and lead investigations

Professional Experience:

- Conduct Environmental Site Assessments (ESA's) for lending institutions, property owners and other private clients conducting due diligence investigations

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Certifications and Affiliation:

- Certified Environmental Specialist (EAA) #73426
- New York State Asbestos Inspector
- New York State Asbestos Project Manager
- New York State Asbestos Air Monitor
- New York State Asbestos Supervisor
- EPA Certification for Lead Based Paint Supervisor
- ASTM 1527-05 "All Appropriate Inquiry" qualified environmental professional

Gary Pollack
Project Manager

As an experienced Certified Environmental Inspector (CEI), Mr. Pollack performs Phase I Environmental Site Assessments (ESA) and Transaction Screens for the Tri-State region. The environmental assessments include on site property inspections, reviews of regulatory data, and historical data to identify environmental concerns.

Areas of Expertise:

- Phase I Environmental Site Assessments (ESA) E1527-00 & E1527-05 (All Appropriate Inquiry "AAI" standards)
- Environmental Transaction Screens
- Asbestos, lead and mold investigations

Professional Experience:

- Conduct Environmental Site Assessments (ESA's) for lending institutions, property owners and other private clients conducting due diligence investigations

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Certifications and Affiliation:

- Certified Environmental Inspector (EAA) #14087
- State of New Jersey Asbestos Inspector
- State of New Jersey Asbestos Project Manager
- State of New Jersey Asbestos Air Monitor
- State of New Jersey Asbestos Supervisor
- EPA Certification for Lead Based Paint Supervisor
- ASTM 1527-05 "All Appropriate Inquiry" qualified environmental professional

SPECIAL CONTRACTUAL CONDITIONS BETWEEN USERS & ENVIRONMENTAL PROFESSIONAL (If Applicable)

HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION (HREC) DOCUMENTATION PROVIDED (If Applicable)

ADDITIONAL INFORMATION OBTAINED

MERRITT
Environmental
Consulting Corp.

77 Arkay Drive, Suite D, Hauppauge, NY 11788
(631) 617-6200/Tel (631) 617-6201/Fax

March 13, 2013
Project: M9245

E-MAILED
3/13/2013
DN

Mr. Ran Korolik
vatallaire@aol.com

Re: Phase I ASTM - Document & Information Inquiry Sheet
239-243 10th Ave (aka: 501-503 West 24th St), New York, NY

Dear Mr. Korolik:

Merritt Environmental Consulting Corp. has been retained to conduct a Phase I Site Assessment of the above referenced property in accordance with the ASTM standards.

We kindly request that someone knowledgeable with the property provide the information requested below to our office.

- **Current owning entity name**
- **Year purchased**
- **Year of construction**
- **AKA addresses**
- **Cross Street**
- **Block and Lot**
- **Plot size**
- **Sq. footage of building**
- **Building manager / Super's name**
- **Title Records**
- **Tenant list (commercial/retail only)**
- **Site Survey**

Specialized Knowledge of site:

- **Environmental Liens**
- **Valuation reduction for Environmental issues**
- **Prior Environmental Reports**

Your quick response to provide this information will facilitate the commencement of our report. Furthermore, the information provided will appear as exhibits in our report. Should you have any questions or if you need further assistance, please feel free to contact Denise Nocerino (dnocerino@merrittec.com).

Regards,

Charles G. Merritt

Phase I Environmental Site Assessment

User Provided Information Questionnaire

The ASTM standard for Phase I ESAs requires that the user (usually the client) be responsible for certain information that is included in the Phase I report. The following questions are being provided to you as the "user". You may or may not know specifics about what is being asked.

Name:

Organization:

Subject Site:

Signed: _____

Date: _____

1. Title Records: Do you currently have any title records for the Site?

   (If "yes", please mail, fax, or e-mail a copy to MEC)

2. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

3. Are you aware of any activity or land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

4. Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

   a) Do you know the past uses of the property? If so, what are they?

   b) Do you know of specific chemicals that are present or once were present at the property?

   c) Do you know of spills or other chemical releases that have taken place at the property?

   d) Do you know of any environmental cleanups that have taken place at the property?

6. Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

7. Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property?

8. Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

9. Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

10. Do you believe that the value of the Site that was or is being paid for this property reasonably reflects the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

QUARTERLY MONITORING REPORT

Site Address:	Getty S/S #341 239 10th Avenue New York, NY 10010	**Regulatory Agency:** **Regulatory Contact:** **Case #:**	NYSDEC (Region II) Rui Feng 97-07190
Prepared for:	Getty Properties Corp. 125 Jericho Tpke. Jericho, New York 11753	**Getty Contact:** **Delta Env. Contact:** **Tyree Contact(s):**	Kevin Shea Paul Lindell Jennifer Kotch

Report Date: September 2009

Spill Information:

Cause: Impacted soil discovered as a result of a subsurface investigation for the purpose of soil preclassification; September 17, 1997

Source: Former UST

Current Site Status: Active Lukoil gasoline station/convenience store

Monitoring Period: April through June 2009, Second Quarter 2009

Well Information: Number/type: 12 groundwater monitoring wells

Groundwater Monitoring:

Gauging Frequency:	Monthly
Sampling Frequency:	Quarterly
Wells containing LNAPL:	None
LNAPL Thickness:	N/A
Total BTEX:	Non-detect to 7,530 ppb 20,856
MTBE:	Non-detect to 165 ppb
Groundwater Depth:	8.11 feet to 9.66 feet below grade
Groundwater Flow:	Southerly

TYREE ENVIRONMENTAL CORP.
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QUARTERLY MONITORING REPORT

Site Address:	Getty S/S #341 239 10th Avenue New York, NY 10010	**Regulatory Agency:** **Regulatory Contact:** **Case #:**	NYSDEC (Region II) Rui Feng 97-07190
Prepared for:	Getty Properties Corp. 125 Jericho Tpke. Jericho, New York 11753	**Getty Contact:** **Delta Env. Contact:** **Tyree Contact(s):**	Kevin Shea Brad Fisher Jennifer Kotch

Report Date: June 2010

Spill Information:

Cause: Impacted soil was discovered as a result of a subsurface investigation conducted as part of a soil waste classification event conducted on September 17, 1997

Source: Former UST

Current Site Status: Active Lukoil gasoline station/convenience store

Monitoring Period: January through March, First Quarter 2010

Well Information: Number/type: 12 groundwater monitoring wells

Groundwater Monitoring:

Gauging Frequency:	Monthly
Sampling Frequency:	Quarterly
Sample Date:	February 18, 2010
Wells containing LNAPL:	None
LNAPL Thickness:	N/A
Range of Total BTEX concentrations:	Non-detect to 4,766.9 (W-5) ppb
Range of MTBE concentrations:	Non-detect to 69.9 (W-7) ppb
Range of Groundwater Depths:	7.52 (W-2) feet to 9.12 (W-3) feet below grade
Groundwater Flow Direction:	Southwesterly

Notes: A Freedom of Information Act (FOIA) review for the adjacent property that was conducting a dewatering project in 2009 did not prsovide any pertinent information.

A workplan submitted to the NYSDEC on June 3, 2010 was developed as per a meeting between the New York State Department of Environmental Conservation (NYSDEC), Tyree, and Delta Consultants on February 24, 2010. The work proposed as part of this workplan was developed in an effort to further delineate groundwater impacts north and west of existing monitoring well W-7.

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2nd QUARTER 2010 MONITORING REPORT

Site Address:	Getty S/S #341 239 10th Avenue New York, NY 10010	**Regulatory Agency:** **Regulatory Contact:** **Case #:**	NYSDEC (Region II) Rui Feng 97-07190
Prepared for:	Getty Properties Corp. 125 Jericho Tpke. Jericho, New York 11753	**Getty Contact:** **Delta Env. Contact:** **Tyree Contact(s):**	Kevin Shea Brad Fisher Justin C. Keller

Report Date: September 2010

Spill Information:

Cause: Impacted soil was discovered as a result of a subsurface investigation conducted as part of a soil waste classification event conducted on September 17, 1997

Source: Former UST

Current Site Status: Active Lukoil gasoline station/convenience store

Monitoring Period: Second Quarter 2010 (April - June, 2010)

Well Information: Number/type: 12 groundwater monitoring wells

Groundwater Monitoring:

Gauging Frequency:	Monthly
Sampling Frequency:	Quarterly
Sample Date:	May 21, 2010
Wells containing LNAPL:	None
LNAPL Thickness:	N/A
Range of Total BTEX concentrations:	Non-detect to 6,308.9 ppb (W-5)
Range of MTBE concentrations:	Non-detect to 75.8 ppb (W-7)
Range of Groundwater Depths:	7.39 feet (W-2) to 9.05 feet (W-9) below grade
Groundwater Flow Direction:	Southwesterly

Remedial Activities: Ongoing monitoring of groundwater elevations. The next groundwater sampling event will be scheduled for August, 2010.

Notes: A Freedom of Information Act (FOIA) review for the adjacent property that was conducting a dewatering project in 2009 did not provide any pertinent information.

A workplan submitted to the New York State Department of Environemtal Conservation (NYSDEC) on June 3, 2010 was developed following the February 24, 2010 meeting between the NYSDEC, Tyree, and Getty. The scope of work included further delineation north and west of existing monitoring well W-7.

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QUARTERLY MONITORING REPORT

GETTY SERVICE STATION #00341

239 10TH Avenue
New York, New York

NYSDEC Spill # 97-07190
Tyree Project #2100201-422

Report Prepared For:

Mr. Brad Fisher
Delta Consultants, on behalf of Getty Properties Corp.
500 Summit Lake Drive, Suite 150
Valhalla, New York 10595

Report Prepared By:

Tyree Environmental Corp.
208 Route 109, Suite 100
Farmingdale, New York 11735

REPORTING PERIOD – JULY 2010 THROUGH SEPTEMBER 2010

INTRODUCTION

This Quarterly Monitoring Report (QMR) has been prepared by Tyree Environmental Corp. (Tyree), on behalf of Getty Properties Corp. (Getty), to summarize the groundwater sampling and gauging conducted at the subject site (Service Station) in accordance with the requirements set forth by the New York State Department of Environmental Conservation (NYSDEC) regarding spill number 97-07190. A map depicting the current site layout is included in **Figure 1**.

SITE HISTORY

On September 17, 1997 Tyree conducted a repair of the remote fill located along the southern edge of the subject property. During the repair activities petroleum impacted soil was encountered and spill number 97-07190 was issued by the NYSDEC Region II. Approximately 1 cubic yard of impacted soil was removed from around the fill portal. In 1998 Tyree removed three (3) 4000-gallon underground storage tanks (USTs), twelve (12) 550-gallon gasoline USTs, one (1) 275-gallon fuel oil UST, two (2) fueling pump islands and the remote fill from the subject site as per the EPA mandate for tank upgrades. During the removal activities petroleum impacted soil was encountered around

the USTs and spill number 98-10383 was issued by the NYSDEC Region II. A total of 1,852.91 tons of impacted soil was removed up to a depth of twenty (20) feet below grade from the former UST locations and disposed of at Posillico Bros. of Farmingdale, New York. Following the removal of impacted soils, nine (9) endpoint samples were collected around the gasoline USTs at a depth of five (5) to ten (10) feet below grade. Laboratory analytical results identified concentrations of volatile organic compounds (VOCs) including MTBE exceeding NYSDEC guidance values from samples collected from bottom and from the south and east walls of the tank field. One (1) endpoint sample was collected from bottom of the fuel oil UST at a depth of twenty (20) feet below grade. Laboratory analytical results identified concentrations of VOCs including MTBE as well as semi-volatile organic compounds (SVOCs) exceeding NYSDEC guidance values from the bottom sample. Spill number 98-10383 was subsequently closed by the NYSDEC on October 18, 2005.

In April 2001 monitoring wells MW-1 through MW-3 were installed on the subject property around the former gasoline UST field to delineate the hydrocarbon plume onsite. Baseline groundwater analytical results for wells MW-1 through MW-3 indicated detectable levels of VOCs including MTBE exceeding NYSDEC Groundwater Quality Standards (GWQS).

In April 2005 monitoring wells MW-4 through MW-7 were installed in the sidewalk bordering the subject property along 10th Avenue and West 24th Street to delineate soil and groundwater impacts offsite. Laboratory analytical results for soil samples collected from MW-5 through MW-7 identified VOCs exceeding NYSDEC standards. Baseline groundwater analytical results for wells MW-4, MW-6 and MW-7 indicated detectable levels of VOCs including MTBE exceeding NYSDEC GWQS.

In May 2006 monitoring wells MW-8 through MW-10 were installed in the sidewalk across 10th Avenue and West 24th Street to further characterize hydrogeologic conditions and to delineate soil and groundwater impacts offsite. Laboratory analytical results from soil samples collected during the subsurface investigation did not identify any VOCs or SVOCs exceeding NYSDEC standards.

WELL GAUGING / SAMPLING INFORMATION

Prior to sampling, each monitoring well was gauged for static water level and then purged of three well volumes or until dry. Once the groundwater within each monitoring well recharged to at least 90 percent of its static water level, groundwater samples were collected. Summaries of the groundwater elevation data and groundwater chemistry data measured during the August 4, 2010 groundwater sampling event (including complete historical data) have been provided in **Tables 1 and 2**, respectively.

Dates Wells Gauged - 7/28/10, 8/4/10 and 9/30/10

Number of Wells Gauged – 7/28/10 – ten (10)
8/4/10 – ten (10)

	9/30/10 – ten (10)
Gauged Well Identifications -	7/28/10 – MW-1 through MW-10 8/4/10 – MW-1 through MW-10 9/30/10 – MW-1 through MW-10
Dates Wells Sampled -	8/4/10
Number of Wells Sampled –	Ten (10)
Sampled Well Identifications –	MW-1 through MW-10
Wells Not Sampled and Reason –	None
Liquid Phase Hydrocarbons (LPH) Detected and LPH Thickness –	None
Generalized Groundwater Flow Direction –	Southwest
Wells Not Used in Contouring and Reason –	8/4/10 – MW-6 Groundwater elevations anomalous to historical levels
Laboratory Analytical Parameters and Methods –	BTEX, MTBE and Ethanol (MW-3, MW-4 and MW-7) via United States Environmental Protection Agency (USEPA) Method 8260
New York-Certified Laboratory –	Accutest Laboratories; Dayton, New Jersey

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results associated with the August 4, 2010 groundwater sampling event indicate that target compounds of concern (COCs) exceeded NYSDEC groundwater standards at the following monitoring well locations:

MW-1	benzene (93.7 ppb), ethylbenzene (64.0 ppb) and total xylenes (26.9 ppb)
MW-2	benzene (14.6 ppb), ethylbenzene (9.6 ppb), total xylenes (8.4 ppb), and MTBE (13.0 ppb)
MW-3	benzene (96.7 ppb), toluene (5.3 ppb), ethylbenzene (371 ppb) and total xylenes (231 ppb)
MW-4	none
MW-5	benzene (491 ppb), toluene (51.4 ppb), ethylbenzene (2,290 ppb) and total xylenes (3,350 ppb)
MW-6	benzene (446 ppb), toluene (31.1 ppb), ethylbenzene (990 ppb), total

	xylenes (178 ppb), and MTBE (34.2 ppb)
MW-7	benzene (2,280 ppb), toluene (339 ppb), ethylbenzene (2,940 ppb) and total xylenes (9,060 ppb)
MW-8	none
MW-9	none
MW-10	benzene (4.2 ppb), ethylbenzene (12.8 ppb) and total xylenes (29.3 ppb)

Historical groundwater analytical results are summarized in **Table 2**. Groundwater elevation maps for the July 28, 2010, August 4, 2010 and September 30, 2010 groundwater gauging events are included as **Figures 1, 2 and 3**, respectively. BTEX and MTBE plume maps associated with the August 4, 2010 groundwater sampling event are included as **Figures 4 and 5**, respectively. In addition, a copy of the original laboratory analytical data package associated with the August 4, 2010 groundwater sampling event has been included in **Appendix A**.

SITE PROGRESS UPDATE

On September 15, 2010 Tyree conducted a subsurface investigation at the subject site in order to further delineate groundwater impacts north and west of existing monitoring well MW-7 in accordance with the meeting held between the NYSDEC, Tyree, and Delta on February 24, 2010. Tyree advanced six (6) borings (RF-1 through RF-6) on and offsite in an attempt to install two new (2) groundwater monitoring wells. All boring attempts resulted in refusal at a maximum depth of five feet below grade due to various subsurface conditions (impenetrable bedrock, utilities and collapsing pea gravel in close proximity to the USTs and vent lines). The Subsurface Investigation Report will be submitted to the NYSDEC by the end of the fourth quarter 2010 monitoring period.

SUMMARY OF UPCOMING EVENTS

Next Groundwater Sampling Event –	November 2010
Next Report Submittal Date –	January 2011 – Fourth Quarter 2010 Quarterly Monitoring Report

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Report Prepared By:
TYREE ENVIRONMENTAL CORP.

Justin C. Keller
Environmental Project Manager

QUARTERLY MONITORING REPORT

FORMER GETTY SERVICE STATION #00341

239 10TH Avenue
New York, New York

NYSDEC Spill # 97-07190
Tyree Project #2100201-422

Report Prepared For:

Mr. Brad Fisher
Antea Group, on behalf of Getty Properties Corp.
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Valhalla, New York 10595

Report Prepared By:

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Farmingdale, New York 11735

REPORTING PERIOD – OCTOBER 2010 THROUGH DECEMBER 2010

INTRODUCTION

This Quarterly Monitoring Report (QMR) has been prepared by Tyree Environmental Corp. (Tyree), on behalf of Getty Properties Corp. (Getty), to summarize the groundwater sampling and gauging conducted at the subject site (Service Station) in accordance with the requirements set forth by the New York State Department of Environmental Conservation (NYSDEC) regarding spill number 97-07190. A map depicting the current site layout is included in **Figure 1**.

SITE HISTORY

On September 17, 1997 Tyree conducted a repair of the remote fill located along the southern edge of the subject property. During the repair activities petroleum impacted soil was encountered and spill number 97-07190 was issued by the NYSDEC Region II. Approximately one (1) cubic yard of impacted soil was removed from around the fill portal. In 1998 Tyree removed three (3) 4000-gallon underground storage tanks (USTs), twelve (12) 550-gallon gasoline USTs, one (1) 275-gallon fuel oil UST, two (2) fueling pump islands and the remote fill from the subject site as per the EPA mandate for tank upgrades. During the removal activities petroleum impacted soil was encountered around

the USTs and spill number 98-10383 was issued by the NYSDEC Region II. A total of 1,852.91 tons of impacted soil was removed up to a depth of twenty (20) feet below grade from the former UST locations and disposed of at Posillico Bros. of Farmingdale, New York. Following the removal of impacted soils, nine (9) endpoint samples were collected around the gasoline USTs at a depth of five (5) to ten (10) feet below grade. Laboratory analytical results identified concentrations of volatile organic compounds (VOCs) including MTBE exceeding NYSDEC guidance values from samples collected from bottom and from the south and east walls of the tank field. One (1) endpoint sample was collected from bottom of the fuel oil UST at a depth of twenty (20) feet below grade. Laboratory analytical results identified concentrations of VOCs including MTBE as well as semi-volatile organic compounds (SVOCs) exceeding NYSDEC guidance values from the bottom sample. Spill number 98-10383 was subsequently closed by the NYSDEC on October 18, 2005.

In April 2001 monitoring wells MW-1 through MW-3 were installed on the subject property around the former gasoline UST field to delineate the hydrocarbon impacts onsite. Baseline groundwater analytical results for wells MW-1 through MW-3 indicated detectable levels of VOCs including MTBE exceeding NYSDEC Groundwater Quality Standards (GWQS).

In April 2005 monitoring wells MW-4 through MW-7 were installed in the sidewalk bordering the subject property along 10th Avenue and West 24th Street to delineate soil and groundwater impacts offsite. Laboratory analytical results for soil samples collected from MW-5 through MW-7 identified VOCs exceeding NYSDEC standards. Baseline groundwater analytical results for wells MW-4, MW-6 and MW-7 indicated detectable levels of VOCs including MTBE exceeding NYSDEC GWQS.

In May 2006 monitoring wells MW-8 through MW-10 were installed in the sidewalk across 10th Avenue and West 24th Street to further characterize hydrogeologic conditions and to delineate soil and groundwater impacts offsite. Laboratory analytical results from soil samples collected during the subsurface investigation did not identify any VOCs or SVOCs exceeding NYSDEC standards.

On September 15, 2010 Tyree conducted a subsurface investigation at the subject site in order to further delineate groundwater impacts north and west of existing monitoring well MW-7 in accordance with the meeting held between the NYSDEC, Tyree, and Antea Group on February 24, 2010. Tyree advanced six (6) borings (RF-1 through RF-6) on and offsite in an attempt to install two (2) new groundwater monitoring wells (Proposed MW-11 and MW-12). All boring attempts resulted in refusal at a maximum depth of five feet below grade due to various subsurface conditions (impenetrable bedrock, utilities and collapsing pea gravel in close proximity to the USTs and vent lines).

WELL GAUGING / SAMPLING INFORMATION

Prior to sampling, each monitoring well was gauged for static water level and then purged of three well volumes or until dry. Once the groundwater within each monitoring well recharged to at least 90 percent of its static water level, groundwater samples were collected. Summaries of the groundwater elevation data and groundwater chemistry data measured during the November 24, 2010 groundwater sampling event (including complete historical data) have been provided in **Tables 1 and 2**, respectively.

Dates Wells Gauged -	10/12/10 and 11/24/10
Number of Wells Gauged –	10/12/10 – ten (10) 11/24/10 – nine (9)
Gauged Well Identifications -	10/12/10 – MW-1 through MW-10 11/24/10 – MW-1 through MW-9
Dates Wells Sampled -	11/24/10
Number of Wells Sampled –	Nine (9)
Sampled Well Identifications –	MW-1 through MW-9
Wells Not Sampled and Reason –	MW-10 – Well head requires repair
Liquid Phase Hydrocarbons (LPH) Detected and LPH Thickness –	None
Generalized Groundwater Flow Direction –	Southwest
Wells Not Used in Contouring and Reason –	10/12/10 – MW-1, MW-3 and MW-6 Groundwater elevations anomalous to historical levels
Laboratory Analytical Parameters and Methods –	BTEX, MTBE and Ethanol (MW-2 and MW-8) via United States Environmental Protection Agency (USEPA) Method 8260
New York-Certified Laboratory –	Accutest Laboratories; Dayton, New Jersey

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results associated with the November 24, 2010 groundwater sampling event indicate that target compounds of concern (COCs) exceeded NYSDEC groundwater standards at the following monitoring well locations:

MW-1	benzene (84.8 ppb), ethylbenzene (7.4 ppb) and total xylenes (12.8 ppb)
MW-2	benzene (3.4 ppb)
MW-3	benzene (283 ppb), toluene (80.7 ppb), ethylbenzene (1,320 ppb), total xylenes (1,670 ppb) and MTBE (13.7 ppb)
MW-4	none
MW-5	benzene (503 ppb), toluene (49.5 ppb), ethylbenzene (1,770 ppb) and total xylenes (2,610 ppb)
MW-6	benzene (103 ppb), toluene (7.6 ppb), ethylbenzene (241 ppb), total xylenes (38.6 ppb), and MTBE (14.8 ppb)
MW-7	benzene (656 ppb), toluene (29.4 ppb), ethylbenzene (683 ppb), total xylenes (1,600 ppb) and MTBE (49.5)
MW-8	toluene (6.6 ppb) and total xylenes (22.6 ppb)
MW-9	total xylenes (7.8 ppb)

Historical groundwater analytical results are summarized in **Table 2**. Groundwater elevation maps for the October 12, 2010 and November 24, 2010 groundwater gauging events are included as **Figures 1 and 2**, respectively. BTEX and MTBE plume maps associated with the November 24, 2010 groundwater sampling event are included as **Figures 3 and 4**, respectively. In addition, a copy of the original laboratory analytical data package associated with the November 24, 2010 groundwater sampling event has been included in **Appendix A**.

SITE PROGRESS UPDATE

Tyree will conduct a review of site conditions observed during the September 15, 2010 subsurface investigation as well as previous investigations and formulate a new Remedial Investigation Work Plan for the site during the first quarter 2011 monitoring period.

SUMMARY OF UPCOMING EVENTS

Next Groundwater Sampling Event –	February 2011
Next Report Submittal Date –	April 2011 – First Quarter 2011 Quarterly Monitoring Report

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Report Prepared By:
TYREE ENVIRONMENTAL CORP.

Justin C. Keller
Environmental Project Manager

QUARTERLY MONITORING REPORT

FORMER GETTY SERVICE STATION #00341

239 10th Avenue
New York, New York

NYSDEC Spill # 97-07190
Tyree Project #2120213-422

Report Prepared For:

Mr. Timothy Fisher
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Report Prepared By:

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REPORTING PERIOD – APRIL 2012 THROUGH JUNE 2012

INTRODUCTION

This Quarterly Monitoring Report (QMR) has been prepared by Tyree Environmental Corp. (Tyree), on behalf of Getty Properties Corp. (Getty), to summarize the groundwater sampling and gauging conducted at the subject site (Service Station) in accordance with the requirements set forth by the New York State Department of Environmental Conservation (NYSDEC) regarding spill number 97-07190. A map depicting the current site layout including all relevant site features is included in **Figure 1**.

SITE DESCRIPTION

The subject property, located at 239 10th Avenue, New York, New York, is currently utilized as a LukOil gas station that provides commercial gasoline retail and automotive service. The subject site currently consists of a 1-story masonry building with convenience store, office and restroom. The site is presently improved with two (2) 10,000-gallon gasoline underground storage tanks (USTs), fueling canopy, two (2) fueling pump islands and a total of four (4) product dispensers.

The subject property is bordered by 10th Avenue followed by multi-level residential apartments with ground-floor commercial fronts to the east and West 24th Street followed by a 1-story car wash to the south. The Bryce Wolkowitz Art Gallery and multi-level residential center surrounds the remainder of the property to the north and to the west.

There are currently three (3) on-site monitoring wells [MW-1 through MW-3] and nine (9) off-site monitoring wells [MW-4 through MW-12] utilized in the ongoing groundwater monitoring program. Historical summaries of the groundwater elevation data and groundwater chemistry data have been provided in **Tables 1 and 2**, respectively.

SITE GEOLOGY / HYDROGEOLOGY

The Bedrock Geologic Map of New York (Lower Hudson Sheet) identifies the lithology in the area of the site as metamorphic rocks of sedimentary and volcanic origin, specifically Fordham gneiss. The subsurface is characterized by bedrock that is exposed generally within one meter of the surface (Cadwell et al. 1989). The overburden soil is characterized as till deposited beneath glacier ice consisting of variable texture (boulders to silt), usually poorly sorted sand-rich diamict, with varying degrees of permeability and compaction measuring between 1-50 meters in thickness (Sirkin et al. 1988).

The surficial geology at the subject site has been investigated up to a maximum depth of 25 feet below grade (fbg). The depth of the bedrock surface beneath the subject site has not yet been determined. The geologic conditions encountered during previous subsurface investigations consisted mainly of fine to medium grained sands mixed with gravels, boulders, construction debris and interbedded layers of silt.

The site topography is generally flat and the surface elevation is situated at approximately 43 feet above mean sea level (msl). Groundwater occurs within the unconsolidated soils at depths ranging from approximately 7 to 10 fbg and currently flows to the southwest. Based on historical gauging data, there appears to be an appreciable degree of seasonal variation in the direction of groundwater flow at the site, periodically fluctuating between south, southwest and west.

SITE HISTORY

On September 17, 1997 Tyree conducted a repair of the remote fill located along the southern edge of the subject property. During the repair activities petroleum impacted soil was encountered and spill number 97-07190 was issued by the NYSDEC Region II. Approximately one (1) cubic yard of impacted soil was removed from around the fill portal. In 1998 Tyree removed three (3) 4000-gallon underground storage tanks (USTs), twelve (12) 550-gallon gasoline USTs, one (1) 275-gallon fuel oil UST, two (2) fueling pump islands and the remote fill from the subject site as per the EPA mandate for tank upgrades. During the removal activities petroleum impacted soil was encountered around the USTs and spill number 98-10383 was issued by the NYSDEC Region II. A total of 1,852.91 tons of impacted soil was removed up to a depth of twenty (20) fbg from the former UST locations and disposed of at Posillico Bros. of Farmingdale, New York.

Following the removal of impacted soils, nine (9) endpoint samples were collected around the gasoline USTs at a depth of five (5) to ten (10) fbg. Laboratory analytical results identified concentrations of volatile organic compounds (VOCs) including methyl tert-buytl ether (MTBE) exceeding NYSDEC guidance values from samples collected from bottom and from the south and east walls of the tank field. One (1) endpoint sample was collected from bottom of the fuel

oil UST at a depth of twenty (20) fbg. Laboratory analytical results identified concentrations of VOCs including MTBE as well as semi-volatile organic compounds (SVOCs) exceeding NYSDEC guidance values from the bottom sample. Spill number 98-10383 was subsequently closed by the NYSDEC on October 18, 2005.

In June 2000 Tyree began collecting groundwater samples from one existing monitoring well [MW-3] on-site previously installed by outside contractors and located in the northeast corner of the subject property. Baseline groundwater analytical results identified elevated concentrations of VOCs including MTBE exceeding NYSDEC Groundwater Quality Standards (GWQS).

In April 2001 Tyree installed monitoring wells MW-1 and MW-2 along the southern edge of the property to delineate the hydrocarbon impacts on-site. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 25 fbg with 23 feet of 0.020 slot well screen and appropriate riser casing. Detailed subsurface lithology at each boring location was recorded in field boring logs however no representative soil samples were collected for analysis during the subsurface investigation of 2001. Baseline groundwater analytical results for wells MW-1 and MW-2 identified detectable levels of VOCs including MTBE exceeding NYSDEC GWQS.

In April 2005 monitoring wells MW-4 through MW-7 were installed in the sidewalk bordering the subject property along 10th Avenue and West 24th Street to delineate soil and groundwater impacts off-site. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 20 fbg with 15 feet of 0.020 slot well screen and appropriate riser casing. Laboratory analytical results for soil samples collected from MW-5 through MW-7 identified VOCs exceeding NYSDEC standards. Baseline groundwater analytical results for wells MW-4, MW-6 and MW-7 indicated detectable levels of VOCs including MTBE exceeding NYSDEC GWQS.

In May 2006 monitoring wells MW-8 through MW-10 were installed in the sidewalk across 10th Avenue and West 24th Street to further characterize hydrogeologic conditions and to delineate soil and groundwater impacts off-site. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 20 fbg with 15 feet of 0.020 slot well screen and appropriate riser casing. Laboratory analytical results from soil samples collected during the subsurface investigation did not identify any VOCs or SVOCs exceeding NYSDEC standards. Baseline groundwater analytical results did not identify petroleum impacts to groundwater above NYSDEC standards at any of the off-site locations for MW-8 through MW-10.

On September 15, 2010 Tyree conducted a subsurface investigation at the subject site in order to further delineate groundwater impacts north and west of existing monitoring well MW-7 in accordance with the meeting held between the NYSDEC, Tyree, and Antea Group on February 24, 2010. Tyree advanced six (6) borings [RF-1 through RF-6] on and off-site in an attempt to install two (2) new groundwater monitoring wells. All boring attempts resulted in refusal at a maximum depth of 5 fbg due to various subsurface conditions (impenetrable rock, existing municipal utilities and collapsing pea gravel in close proximity to the USTs and the associated vent lines).

WELL GAUGING / SAMPLING INFORMATION

Prior to sampling, each monitoring well was gauged for static water level and then purged of three well volumes or until dry. Once the groundwater within each monitoring well recharged to at least 90 percent of its static water level, groundwater samples were collected. Summaries of the groundwater elevation data and groundwater chemistry data measured during the May 8, 2012 groundwater sampling event (including complete historical data) have been provided in **Tables 1 and 2**, respectively.

Dates Wells Gauged:	5/8/12
Number of Wells Gauged:	5/8/12 - Eleven (11)
Gauged Well Identifications:	5/8/12 - MW-1, MW-2, MW-4 through MW-12
Wells Not Gauged and Reason:	MW-3 – Under vehicle
Dates Wells Sampled:	5/8/12
Number of Wells Sampled:	5/8/12 – Eleven (11)
Sampled Well Identifications:	5/8/12 - MW-1, MW-2, MW-4 through MW-12
Wells Not Sampled and Reason:	MW-3 – Under vehicle
Liquid Phase Hydrocarbons (LPH) Detected and LPH Thickness:	None
Generalized Groundwater Flow Direction:	Southwest
Wells Not Used in Contouring and Reason:	MW-9 – groundwater elevation anomalous
Laboratory Analytical Parameters and Methods:	BTEX, MTBE via United States Environmental Protection Agency (USEPA) Method 8260
New York-Certified Laboratory:	Accutest Laboratories; Dayton, New Jersey

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results associated with the May 8, 2012 groundwater sampling events indicate that target compounds of concern (COCs) exceeded NYSDEC groundwater standards at the following monitoring well locations:

MW-1 benzene (16.8 parts per billion [ppb]) and ethylbenzene (8.8 ppb)

MW-2	benzene (3.0 ppb) and MTBE (60.2 ppb)
MW-4	none
MW-5	benzene (285 ppb), toluene (31.4 ppb), ethylbenzene (1,450 ppb) and total xylenes (1,760 ppb)
MW-6	benzene (84.2 ppb), ethylbenzene (94.3 ppb) and total xylenes (19.4 ppb)
MW-7	benzene (662 ppb), toluene (23.2 ppb), ethylbenzene (1,250 ppb), total xylenes (1,540 ppb) and MTBE (84.9 ppb)
MW-8	none
MW-9	none
MW-10	none
MW-11	none
MW-12	none

Historical groundwater elevation results are summarized in **Table 1** and plotted over time in **Graph 1** (Hydrograph). A groundwater elevation map for the May 8, 2012 groundwater gauging event is included as **Figure 1**. Historical groundwater analytical results are summarized in **Table 2** and plotted in **Graph 2** (Total BTEX vs. Time) and **Graph 3** (MTBE vs. Time). Total BTEX and MTBE plume maps associated with the May 8, 2012 groundwater sampling events are included as **Figures 2 and 3**, respectively. In addition, a copy of the original laboratory analytical data packages associated with the May 8, 2012 groundwater sampling events have been included in **Appendix A**.

SITE PROGRESS UPDATE

On March 5, 2012 Tyree installed two (2) groundwater monitoring wells [MW-11 and MW-12] at the subject site (**Figure 1**) in order to further delineate groundwater impacts downgradient of existing MW-7. The wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 25 fbg with 20 feet of 0.020 slot well screen and appropriate riser casing. Representative soil samples were collected from each bore hole at the observed groundwater interface and at the end of boring depth. The March 2012 subsurface investigation did not identify any concentrations of VOCs exceeding NYCDEC Unrestricted Use Soil Cleanup Objectives (USCOs) in these samples. Grab groundwater samples were obtained from both wells on March 22, 2012 following well development activities. Baseline groundwater analytical results indicated only minimal concentrations of VOCs exceeding NYSDEC GWQS at both well locations. Tyree submitted a Subsurface Investigation Report (SIR) in conjunction with the first quarter 2012 monitoring report documenting the results of the March 2012 site investigation. On April 17, 2012, casing elevations for wells MW-11 and MW-12 were surveyed.

On March 9, 2012 Tyree completed the necessary road-box replacement for well MW-10 and regained access to this groundwater monitoring location. Of note, the well casing for well MW-10 was not previously damaged or disturbed).

SUMMARY OF UPCOMING EVENTS

Next Groundwater Sampling Event: August 2012

Next Report Submittal Date: October 2012 – Third Quarter 2012 Monitoring Report

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Report Prepared By:
TYREE ENVIRONMENTAL CORP.

Gerard J. Colling
Environmental Project Manager

QUARTERLY MONITORING REPORT

FORMER GETTY SERVICE STATION #00341

239 10th Avenue
New York, New York

NYSDEC Spill # 97-07190
Tyree Project #2120213-422

Report Prepared For:

Mr. Timothy Fisher
Antea Group, on behalf of Getty Properties Corp.
500 Summit Lake Drive, Suite 150
Valhalla, New York 10595

Report Prepared By:

Tyree Environmental Corp.
208 Route 109, Suite 100
Farmingdale, New York 11735

REPORTING PERIOD – JULY 2012 THROUGH SEPTEMBER 2012

INTRODUCTION

This Quarterly Monitoring Report (QMR) has been prepared by Tyree Environmental Corp. (Tyree), on behalf of Getty Properties Corp. (Getty), to summarize the groundwater sampling and gauging conducted at the subject site (Service Station) in accordance with the requirements set forth by the New York State Department of Environmental Conservation (NYSDEC) regarding spill number 97-07190. A map depicting the current site layout including all relevant site features is included in **Figure 1**.

SITE DESCRIPTION

The subject property, located at 239 10th Avenue, New York, New York, is currently utilized as a LukOil gas station that provides commercial gasoline retail and automotive service. The subject site currently consists of a 1-story masonry building with convenience store, office and restroom. The site is presently improved with two (2) 10,000-gallon gasoline underground storage tanks (USTs), fueling canopy, two (2) fueling pump islands and a total of four (4) product dispensers.

The subject property is bordered by 10th Avenue followed by multi-level residential apartments with ground-floor commercial fronts to the east and West 24th Street followed by a 1-story car wash to the south. The Bryce Wolkowitz Art Gallery and multi-level residential center surrounds the remainder of the property to the north and to the west.

There are currently three (3) on-site monitoring wells [MW-1 through MW-3] and nine (9) off-site monitoring wells [MW-4 through MW-12] utilized in the ongoing groundwater monitoring program. Historical summaries of the groundwater elevation data and groundwater chemistry data have been provided in **Tables 1 and 2**, respectively.

SITE GEOLOGY / HYDROGEOLOGY

The Bedrock Geologic Map of New York (Lower Hudson Sheet) identifies the lithology in the area of the site as metamorphic rocks of sedimentary and volcanic origin, specifically Fordham gneiss. The subsurface is characterized by bedrock that is exposed generally within one meter of the surface (Cadwell et al. 1989). The overburden soil is characterized as till deposited beneath glacier ice consisting of variable texture (boulders to silt), usually poorly sorted sand-rich diamict, with varying degrees of permeability and compaction measuring between 1-50 meters in thickness (Sirkin et al. 1988).

The surficial geology at the subject site has been investigated up to a maximum depth of 25 feet below grade (fbg). The depth of the bedrock surface beneath the subject site has not yet been determined. The geologic conditions encountered during previous subsurface investigations consisted mainly of fine to medium grained sands mixed with gravels, boulders, construction debris and interbedded layers of silt.

The site topography is generally flat and the surface elevation is situated at approximately 43 feet above mean sea level (msl). Groundwater occurs within the unconsolidated soils at depths ranging from approximately 7 to 10 fbg and currently flows to the southwest. Based on historical gauging data, there appears to be an appreciable degree of seasonal variation in the direction of groundwater flow at the site, periodically fluctuating between south, southwest and west.

SITE HISTORY

On September 17, 1997 Tyree conducted a repair of the remote fill located along the southern edge of the subject property. During the repair activities petroleum impacted soil was encountered and spill number 97-07190 was issued by the NYSDEC Region II. Approximately one (1) cubic yard of impacted soil was removed from around the fill portal. In 1998 Tyree removed three (3) 4000-gallon underground storage tanks (USTs), twelve (12) 550-gallon gasoline USTs, one (1) 275-gallon fuel oil UST, two (2) fueling pump islands and the remote fill from the subject site as per the EPA mandate for tank upgrades. During the removal activities petroleum impacted soil was encountered around the USTs and spill number 98-10383 was issued by the NYSDEC Region II. A total of 1,852.91 tons of impacted soil was removed up to a depth of twenty (20) fbg from the former UST locations and disposed of at Posillico Bros. of Farmingdale, New York.

Following the removal of impacted soils, nine (9) endpoint samples were collected around the gasoline USTs at a depth of five (5) to ten (10) fbg. Laboratory analytical results identified concentrations of volatile organic compounds (VOCs) including methyl tert-buytl ether (MTBE) exceeding NYSDEC guidance values from samples collected from bottom and from the south and east walls of the tank field **(Table 3)**. One (1) endpoint sample was collected from bottom

of the fuel oil UST at a depth of twenty (20) fbg **(Table 4)**. One (1) grab groundwater sample was collected from a depth of eleven (11) fbg during the UST removal. Laboratory analytical results identified concentrations of VOCs as well as semi-volatile organic compounds (SVOCs) exceeding NYSDEC Groundwater Quality Standards (GWQS) from the grab groundwater sample **(Table 5)**. Spill number 98-10383 was subsequently closed by the NYSDEC on October 18, 2005.

In June 2000 Tyree began collecting groundwater samples from one existing monitoring well [MW-3] on-site previously installed by outside contractors and located in the northeast corner of the subject property. Baseline groundwater analytical results identified elevated concentrations of VOCs including MTBE exceeding NYSDEC GWQS.

In April 2001 Tyree installed monitoring wells MW-1 and MW-2 along the southern edge of the property to delineate the hydrocarbon impacts on-site. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 25 fbg with 23 feet of 0.020-slot well screen and appropriate riser casing. Detailed subsurface lithology at each boring location was recorded in field boring logs however no representative soil samples were collected for analysis during the subsurface investigation of 2001. Baseline groundwater analytical results for wells MW-1 and MW-2 identified detectable levels of VOCs including MTBE exceeding NYSDEC GWQS.

In April 2005 monitoring wells MW-4 through MW-7 were installed in the sidewalk bordering the subject property along 10th Avenue and West 24th Street to delineate soil and groundwater impacts off-site. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 20 fbg with 15 feet of 0.020-slot well screen and appropriate riser casing. Laboratory analytical results for soil samples collected from MW-5 through MW-7 identified VOCs exceeding NYSDEC standards. Baseline groundwater analytical results for wells MW-4, MW-6 and MW-7 indicated detectable levels of VOCs including MTBE exceeding NYSDEC GWQS **(Table 6)**.

In May 2006 monitoring wells MW-8 through MW-10 were installed in the sidewalk across 10th Avenue and West 24th Street to further characterize hydrogeologic conditions and to delineate soil and groundwater impacts off-site. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 20 fbg with 15 feet of 0.020-slot well screen and appropriate riser casing. Laboratory analytical results did not identify VOC concentrations above NYSDEC Recommended Soil Cleanup Objectives (RSCOs) in any of the samples collected during the subsurface investigation **(Table 7)**. Laboratory analytical results did not identify SVOC concentrations above NYSDEC RSCOs in any of the samples collected during the subsurface investigation **(Table 8)**.

On September 15, 2010 Tyree conducted a subsurface investigation at the subject site in order to further delineate groundwater impacts north and west of existing monitoring well MW-7 in accordance with the meeting held between the NYSDEC, Tyree, and Antea Group on February 24, 2010. Tyree advanced six (6) borings [RF-1 through RF-6] on and off-site in an attempt to install two (2) new groundwater monitoring wells. All boring attempts resulted in refusal at a maximum depth of 5 fbg due to various subsurface conditions (impenetrable rock, existing municipal utilities and collapsing pea gravel in close proximity to the USTs and the associated vent lines).

On March 5, 2012 two (2) groundwater monitoring wells [MW11 and MW-12] were installed downgradient of existing monitoring well MW-7 in an effort to document the presence or absence of residual soil and groundwater impacts. These wells were constructed of 2-inch diameter PVC and set to a maximum depth of 25 fbg with approximately 20 feet of 0.020-slot well screen and appropriate riser casing. Laboratory analytical results indicated that there were no VOCs detected above the Unrestricted Use Soil Cleanup Objectives (USCOs) in any of the representative soil samples collected during the March 2012 investigation **(Table 9)**. Subsequent to the investigation, groundwater samples were obtained from monitoring wells MW-11 and MW-12 on March 22, 2012. Laboratory analytical results indicated only minimal concentrations of ethylbenzene, 1,2,4-trimethylbenzene and total xylenes exceeding NYSDEC GWQS at both well locations **(Table 10)**.

WELL GAUGING / SAMPLING INFORMATION

Prior to sampling, each monitoring well was gauged for static water level and then purged of three well volumes or until dry. Once the groundwater within each monitoring well recharged to at least 90 percent of its static water level, groundwater samples were collected. Summaries of the groundwater elevation data and groundwater chemistry data measured during the August 1, 2012 groundwater sampling event (including complete historical data) have been provided in **Tables 1 and 2**, respectively.

Dates Wells Gauged:	8/1/2012
Number of Wells Gauged:	8/1/2012 - Eleven (11)
Gauged Well Identifications:	8/1/2012 - MW-1 through MW-10 and MW-12
Wells Not Gauged and Reason:	MW-11 – Inaccessible due to sidewalk construction
Dates Wells Sampled:	8/1/2012
Number of Wells Sampled:	8/1/2012 – Eleven (11)
Sampled Well Identifications:	8/1/2012 - MW-1 through MW-10 and MW-12
Wells Not Sampled and Reason:	MW-11 – Inaccessible due to sidewalk construction
Liquid Phase Hydrocarbons (LPH) Detected and LPH Thickness:	None
Generalized Groundwater Flow Direction:	Southeast
Wells Not Used in Contouring and Reason:	MW-10 – groundwater elevation anomalous
Laboratory Analytical Parameters	

and Methods: BTEX, MTBE via United States Environmental Protection Agency (USEPA) Method 8260

New York-Certified Laboratory: Accutest Laboratories; Dayton, New Jersey

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results associated with the August 1, 2012 groundwater sampling events indicate that target compounds of concern (COCs) exceeded NYSDEC groundwater standards at the following monitoring well locations:

MW-1	benzene (32.0 parts per billion [ppb]), ethylbenzene (10.5 ppb) and total xylenes (8.5 ppb)
MW-2	benzene (1.2 ppb) and MTBE (18.3 ppb)
MW-3	benzene (20.0 ppb), ethylbenzene (139 ppb) and total xylenes (80.5 ppb)
MW-4	none
MW-5	benzene (161 ppb), toluene (24.8 ppb), ethylbenzene (1,830 ppb) and total xylenes (1,730 ppb)
MW-6	benzene (92.2 ppb), ethylbenzene (147 ppb) and total xylenes (49.2 ppb)
MW-7	benzene (889 ppb), toluene (71.9 ppb), ethylbenzene (2,190 ppb), total xylenes (4,670 ppb) and MTBE (88.3 ppb)
MW-8	none
MW-9	none
MW-10	none
MW-12	none

Historical groundwater elevation results are summarized in **Table 1** and plotted over time in **Graph 1** (Hydrograph). A groundwater elevation map for the August 1, 2012 groundwater gauging event is included as **Figure 1**. Historical groundwater analytical results are summarized in **Table 2** and plotted in **Graph 2** (Total BTEX vs. Time) and **Graph 3** (MTBE vs. Time). Total BTEX and MTBE plume maps associated with the August 1, 2012 groundwater sampling events are included as **Figures 2 and 3**, respectively. In addition, a copy of the original laboratory analytical data packages associated with the August 1, 2012 groundwater sampling events have been included in **Appendix A**.

SITE PROGRESS UPDATE

On March 5, 2012 Tyree installed two (2) groundwater monitoring wells [MW-11 and MW-12] at the subject site (**Figure 1**) in order to further delineate groundwater impacts downgradient of existing MW-7. The wells were constructed of 2-inch diameter PVC and set to a maximum depth of approximately 25 fbg with 20 feet of 0.020 slot well screen and appropriate riser casing. Representative soil samples were collected from each bore hole at the observed groundwater interface and at the end of boring depth. The March 2012 subsurface investigation did not identify any concentrations of VOCs exceeding NYCDEC Unrestricted Use Soil Cleanup Objectives (USCOs) in these samples. Grab groundwater samples were obtained from both wells on March 22, 2012 following well development activities. Baseline groundwater analytical results indicated only minimal concentrations of VOCs exceeding NYSDEC GWQS at both well

locations. Tyree submitted a Subsurface Investigation Report (SIR) in conjunction with the first quarter 2012 monitoring report documenting the results of the March 2012 site investigation. On April 17, 2012, casing elevations for wells MW-11 and MW-12 were surveyed.

On March 9, 2012 Tyree completed the necessary road-box replacement for well MW-10 and regained access to this groundwater monitoring location. Of note, the well casing for well MW-10 was not previously damaged or disturbed).

Based on current concentrations it is anticipated that the current groundwater trends will continue to attenuate naturally until contaminant concentrations reach asymptotic levels. As such, Tyree, on behalf of Getty, respectfully requests closure of NYSDEC spill number 97-07190 and a status of No Further Action be granted.

Hereafter, Tyree has suspended the groundwater monitoring program associated with the subject site as well as quarterly reporting referencing NYSDEC spill number 97-07190 while awaiting approval of the Petition for Spill Closure.

SUMMARY OF UPCOMING EVENTS

Next Groundwater Sampling Event:	November 2012
Next Report Submittal Date:	January 2013 – Fourth Quarter 2012 Monitoring Report

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Report Prepared By:
TYREE ENVIRONMENTAL CORP.

Gerard J. Colling
Environmental Project Manager

APPENDIX B

Health and Safety Plan

January 29, 2014

HEALTH AND SAFETY PLAN

239 10th Avenue
New York, New York 10001

Prepared for

VHS 239, LLC (% VICTOR HOMES, LLC)
3349 Highway 138, Building C, Suite C
Wall, New Jersey 07753

ROUX ASSOCIATES, INC.

Environmental Consulting & Management

ROUX

209 Shafter Street, Islandia, New York 11749 ♦ 631-232-2600

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APPROVALS

By their signature, the undersigned certify that this Health and Safety Plan (HASP) is approved and will be utilized at the project site located at 239 10th Avenue, New York, New York.

Ray Fitzpatrick Office Health and Safety Manager Roux Associates, Inc.	Date
Craig Werle, P.G. Project Principal Roux Associates, Inc.	Date
Wendy Shen Project Manager/SHSO Roux Associates, Inc.	

1.0 INTRODUCTION

This Site-specific Health and Safety Plan (HASP) has been prepared in accordance with 29 CFR 1910.120 Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) and Roux Associates, Inc. (Roux Associates) Standard Operating Procedures (SOPs) and other OSHA requirements for job safety and health protection (Appendix A). It addresses all activities described below that are associated with the property located at 239 10th Avenue, New York, New York, (Site). The location of the Site is presented in Figure 1. The HASP will be implemented by the designated Site Health and Safety Officer (SSO) during work at the Site. The HASP attempts to identify all potential hazards at the Site; however, Site conditions are dynamic and new hazards may appear constantly. Personnel must remain alert to existing and potential hazards as Site conditions change and protect themselves accordingly.

Compliance with this HASP is required of all persons and subcontractors who perform fieldwork or enter the Site. The contents of this HASP may change or undergo revision based upon additional information made available to health and safety personnel, monitoring results, or changes in the technical scope of work. Any changes proposed must be reviewed and approved by the Office Health and Safety Manager (OHSM), with the SSO implementing the changes to the HASP.

Prior to performing work each task should be evaluated to determine the appropriate procedures that need to be followed.

1.1 Scope of Work

In general, the tasks will include the following:

- Implementation of Remedial Investigation (RI) activities consisting of monitoring well installation, groundwater sampling, soil vapor sampling, and soil borings/sampling.

Any change in scope will require a revision of this HASP to address any new hazards.

2.0 EMERGENCY INFORMATION AND NOTIFICATION

Multiple emergency services may be obtained by calling 911. More specific numbers for local services are listed below.

Emergency Medical Service 911

Police: New York City Police Department 911

Fire 911

Hospital: New York Doctors Urgent Care 866-835-3794

National Response Center 800-424-8802

Poison Control Center 800-222-1222

CHEMTREC 800-262-8200

Fire: NYC Fire Department 911

Center for Disease Control 800-311-3435

USEPA (Region II) 212-637-5000

NYSDEC Emergency Spill Response 800-457-7362

First Care & Occupational Health Clinic 631-435-0110
(For non-emergency medical services)

Directions and maps to the Hospital (Urgent Care) and the Clinic are provided in Figures 2 and 3, respectively.

2.1 Notification

As soon as first aid and/or emergency response needs have been met, the following parties are to be contacted by telephone: (Direct contact, no phone messages).

			Office:	**Cell:**
1.	Project Principal:	Craig Werle	(631) 232-2600	(631) 793-1535
2.	Project Manager/SHSO:	Wendy Shen	(631) 232-2600	(631) 484-1333
3.	Field Manager:	Jeff Wills	(631) 232-2600	(631) 484-3182
4.	Office Health and Safety Manager:	Ray Fitzpatrick	(631) 232-2600	(631) 484-1168
5.	Corporate Health and Safety Manager:	Joseph Gentile	(856) 423-8800	(610) 844-6911
4.	Office Manager:	Brian Morrissey	(631) 232-2600	(631) 921-6355

Accident reporting guidelines are outlined in section 13.5 of this HASP.

3.0 HEALTH AND SAFETY PERSONNEL

This section briefly describes all Site personnel and their health and safety responsibilities for the RI work to be implemented at the Site. All personnel are responsible for ensuring compliance with the HASP.

Project Principal (PP) – Craig Werle – Roux Associates

- Has the overall responsibility for the health and safety of Site personnel.
- Ensures that adequate resources are provided to the field health and safety staff to carry out their responsibilities as outlined below.

Office Health and Safety Manager (OHSM) – Ray Fitzpatrick – Roux Associates

- Implements the HASP.
- Performs or oversees site-specific training and approves revised or new safety protocols or field operations.
- Coordinates revisions of this HASP with Project Principal.
- Responsible for the development of new task safety protocols and procedures and resolution of any outstanding safety issues which may arise during the performance of site work.
- Review and approve all health and safety training and medical surveillance records for personnel and subcontractors.

Site Safety and Health Officer (SSO) – Wendy Shen – Roux Associates

- Directs and coordinates health and safety monitoring activities.
- Ensures that field teams utilize proper personal protective equipment.
- Conducts initial onsite specific training prior to personnel and/or subcontractors commencing work.
- Conducts and documents daily pre-job safety briefings.
- Ensures that field team members comply with this HASP.
- Completes and maintains all accident investigation and reporting forms.
- Notifies PP, PM and OHSM of all accidents/incidents.

- Notifies PP of daily field operations and work progress, who will then communicate at the end of the day to the designated representative the following:
    1. End of day tasks completed
    2. Next day's planned activities
    3. Third party issues
    4. Change of Plans – approvals
- Determines upgrade or downgrade of personal protective equipment (PPE) based on Site conditions and/or real time monitoring results.
- Ensures that monitoring instruments are calibrated daily or as manufacturers suggested instructions determine.
- Submits and maintains health and safety field log books, daily safety logs, training logs, air monitoring result reports, weekly safety report.

Field Personnel and Subcontractors

- Report any unsafe or potentially hazardous conditions to the SSO.
- Maintain knowledge of the information, instructions, and emergency response actions contained in the HASP.
- Comply with rules, regulations, and procedures as set forth in this HASP and any revisions, which are instituted.
- Prevent admittance to work Site by unauthorized personnel.

In the case that there is a change in any of the above personnel, all onsite personnel will be notified of the change. The new responsible party shall review and sign that they have been given a documented verbal full HASP review by Roux Associates and are aware of their responsibilities as outlined in this HASP.

4.0 SITE LOCATION, DESCRIPTION, AND HISTORY

Descriptions of the Site and surrounding property usage are included in the following sections. The location of the Site is presented in Figure 1.

4.1 Property Location and Description

The Site is comprised Lot 32 on Block 696 in the Chelsea section of Manhattan, New York. The Site is located on the west side of 10th Avenue between the corners of West 24th Street and West 25th Street.

- The Site contains a former Getty gasoline station with two (2) active 10,000-gallon gasoline Underground Storage Tanks (USTs) present. According to the regulatory database report, there are several New York State Department of Environmental Conservation (NYSDEC) Spill Numbers assigned to the Site. Spill No. 9707190 has not been closed.

- Three 4,000-gallon gasoline USTs, twelve 550-gallon USTs, one 275-gallon fuel oil UST and two fuel pump island were removed from the Site in 1998.

- Groundwater impacted with volatile organic compounds (VOCs) is present in the subsurface at the Site

5.0 WASTE DESCRIPTION/CHARACTERIZATION

5.1 General

The following information is presented in order to identify the types of materials that may be encountered at the Site. The detailed information on these materials was obtained from:

- Sax's Dangerous Properties of Industrial Materials – Lewis Eight Edition
- Chemical Hazards of the Workplace – Proctor/Hughes
- Condensed Chemical Dictionary – Hawley
- Rapid Guide to Hazardous Chemical in the Workplace – Lewis 1990
- NIOSH Pocket Guide to Chemical Hazards – 2005
- ACGIH TLV Values and Biological Exposure Indices
- OSHA 29 CFR 1910.1000

5.2 Chemical Data Sheets

Several chemicals that may potentially be present in soils and groundwater at the Site, based on previous soil, soil vapor and groundwater sampling results and historic operations conducted at the Site that have been identified. The Summary of Toxicological Data is found in Table 1 and is provided for review of chemicals that may be encountered. The Summary of Toxicological Data Sheets provides information such as the chemicals characteristics, health hazards, protection, and exposure limits. Material Safety Data Sheets (MSDSs) for products that have been identified at the Site are available for review by project personnel (Appendix B).

5.2.1 Contaminants of Concern

Soil and groundwater contaminants that may be encountered during drilling and sampling activities include both organic and inorganic compounds. Prior investigations at the Site have indicated detection of VOCs and Polycyclic Aromatic Hydrocarbons (PAHs) in soil and groundwater. The toxicological, physical, and chemical properties of potential contaminants are presented in Table 1, and identified contaminants are presented in Appendix B.

6.0 HAZARD ASSESSMENT

The potential to encounter chemical hazards is dependent upon the work activity performed (intrusive versus non-intrusive) and the duration and location of the work activity. Such hazards could include inhalation and/or skin contact with chemicals/gases that could cause: dermatitis, skin burns, being overcome by vapors or asphyxiation.

Physical hazards that may be encountered during Site work include heat and cold stress, being crushed, head injuries, punctures, cuts, falls, electrocution, bruises and other physical hazards due to motor vehicle operation, equipment use and power tools

Biological hazards may exist during Site activities. These hazards include exposure to insect bites/stings, animals and animal wastes, mold and blood borne pathogens.

Prior to the beginning of each new phase of work, a job safety analysis (JSA) (Appendix C) will be prepared by the SSO with assistance from the OHSM. The analysis will address the hazards for each activity performed in the phase and will present the procedures and safeguards necessary to eliminate the hazards or reduce the risk. JSAs for each task will be reviewed with onsite personnel at each morning tailgate meeting and as tasks change throughout the day.

6.1 Chemical Hazards

The potential for personnel and subcontractors to come in contact with chemical hazards may occur during the following tasks:

- Installation and sampling of soil borings, and
- Installation, gauging, purging and sampling of monitoring wells.
- Installation and sampling of soil vapor points.

For chronic and acute toxicity data, refer to Summary of Toxicological Data Sheets (Table 1) and MSDSs (Appendix B) for further details on compound characteristics.

6.1.1 Exposure Pathways

Exposure to these compounds during ongoing activities may occur through inhalation of contaminated dust particles, inhalation of VOCs and SVOCs, dermal absorption, and accidental ingestion of the contaminant by either direct or indirect cross-contamination activities.

6.1.2 Operational Action Levels

A decision-making protocol for an upgrade in levels of protection and/or withdrawal of personnel from an area based on exposure levels is outlined in Table 2.

6.1.3 Additional Precautions

Dermal absorption or skin contact with chemical compounds is possible during intrusive activities and while gauging, purging or sampling a monitoring well at the Site. The use of PPE in accordance with Section 9.2 and strict adherence to proper decontamination procedures should significantly reduce the risk of skin contact.

The potential for accidental ingestion of potentially hazardous chemicals is expected to be remote, when good hygiene practices are used.

6.2 Physical Hazards

A variety of physical hazards may be present during Site activities. These hazards are similar to those associated with any construction-type project and include equipment operation and hazardous walking and working surfaces. The referenced hazards are not unique and are generally familiar to most hazardous waste site workers at construction sites. Task-specific safety requirements for each phase will be covered during safety briefings.

6.2.1 Heat Stress

Heat stress is a significant potential hazard, associated with the use of protective equipment in a hot weather environment. The human body is designed to function at a certain internal temperature. When metabolism or external sources (fire or hot summer day) cause the body temperature to rise, the body seeks to protect itself by triggering cooling mechanisms. The SSO will monitor the air temperature (as described later in this section) to determine potential adverse effects the weather can cause onsite personnel. Excess heat is dissipated by two means:

- Changes in blood flow to dissipate heat by convection, which can be seen as "flushing" or reddening of the skin in extreme cases.
- Perspiration, the release of water through skin and sweat glands. While working in hot environments, evaporation of perspiration is the primary cooling mechanism.

Protective clothing worn to guard against chemical contact effectively stops the evaporation of perspiration. Thus the use of protective clothing increases heat stress problems.

The major disorders due to heat stress are heat cramps, heat exhaustion, and heat stroke. Heat cramps are painful spasms, which occur in the skeletal muscles of workers who sweat profusely in the heat and drink large quantities of water, but fail to replace the bodies lost salts or electrolytes. Drinking water while continuing to lose salt tends to dilute the body's extracellular fluids. Soon water seeps by osmosis into active muscles and causes pain. Muscles fatigued from work are usually most susceptible to cramps.

Extreme weakness or fatigue, dizziness, nausea, and headache characterize heat exhaustion. In serious cases, a person may vomit or lose consciousness. The skin is clammy and moist, complexion pale or flushed, and body temperature normal or slightly higher than normal. Treatment is rest in a cool place and replacement of body water lost by perspiration. Mild cases may recover spontaneously with this treatment; severe cases may require care for several days. There are no permanent effects. As first aid treatment, the person shall be moved to a cool place. Body heat should be reduced artificially, but not too rapidly, by soaking the person's clothes in water and fanning them.

Heat stroke is considered a medical emergency and is caused by the breakdown of the body's regulating mechanisms. The skin is very dry and hot with red mottled or bluish appearance. Unconsciousness, mental confusion, or convulsions may occur. Without quick and adequate treatment, the result can be death or permanent brain damage.

Steps that can be taken to reduce heat stress are:

- Acclimate the body. Allow a period of adjustment to make further heat exposure endurable.
- Drink more liquids to replace the body water lost during sweating.
- Rest is necessary and should be conducted under the direction of the SSO.
- Wear personal cooling devices. These are two basic designs; units with pockets for holding frozen packets and units that circulate fluid from a reservoir through tubes to different parts of the body. Both designs can be in the form of a vest, jacket, or coverall. Some circulating units also have a cap for cooling the head.

Heat stress is a significant hazard associated with using protective equipment in hot weather environments. Local weather conditions may produce conditions, which will require restricted work schedules in order to protect employees.

Appendix D contains procedures for heat stress; these will be used as a guideline and to provide additional information.

6.2.2 Cold Stress

Cold temperatures are a significant potential hazard. Examples of cold temperature hazards are frostbite and hypothermia.

Frostbite is the most common injury resulting from exposure to cold. The extremities of the body are most often affected. The signs of frostbite are:

- The skin turns white or grayish-yellow.
- Pain is sometimes felt early but subsides later. Often there is no pain.
- The affected parts feel intensely cold and numb.

Hypothermia is characterized by shivering, numbness, drowsiness, muscular weakness, and a low internal body temperature when the body feels extremely warm. This can lead to unconsciousness and death. With both frostbite and hypothermia, the affected areas need to be warmed quickly. Immersion in warm water is an effective means of warming the affected areas quickly. In such cases, medical assistance will be sought.

To prevent these effects from occurring, persons working in the cold shall wear adequate clothing and reduce the time spent in the cold area. The field SSO is responsible for determining appropriate time personnel shall spend in adverse weather conditions and will monitor this.

Appendix D, which contains the Heat and Cold Stress Guidelines, provides additional information.

6.3 Biological Hazards

The biological hazards, which have the potential to cause adverse health effects, are from exposure to domestic flies, mosquitoes, insects, animals and animal wastes, mold and bloodborne pathogens.

6.3.1 Insect Stings

Stings from insects are often painful, cause swelling and can be fatal if a severe allergic reaction such as anaphylactic shock occurs. If a sting occurs, the stinger should be scraped out of the skin, opposite of the sting direction. The area should be washed with soap and water followed by application of an ice pack.

If the victim has a history of allergic reaction, he shall be taken to the nearest medical facility. If the victim has medication to reverse the effects of the sting, it should be taken immediately.

If the victim experiences a severe reaction, a constricting band should be placed between the sting and the heart. The bitten area should be kept below the heart if possible. A physician shall be contacted immediately for further instructions.

6.3.2 Animals and Animal Wastes

Due to the site currently being vacant, there lies the potential for various wildlife at the site, including, but not limited to, pigeons, bats, mice, rats, squirrels, raccoons, and feral cats. Certain animals can represent significant sources (vectors) of disease transmission. Precautions to avoid or minimize potential contact with (biting) animals (such as some of the above listed) or animal waste and/or deceased animals should be considered prior to all field activities. Rats, squirrels, raccoons, feral cats, and other wild animals can inflict painful bites which can also cause disease (as in the case of rabid animals). Site personnel should avoid contact with any of the above.

If contact occurs, be sure to clean the area thoroughly with soap and water as soon as possible. If a bite occurs, the area shall be cleaned thoroughly immediately with soap and water and medical attention shall be sought.

6.3.3 Bloodborne Pathogens

The majority of the occupational tasks onsite will not involve a significant risk of exposure to blood, blood components, or body fluids. The highest risk of acquiring any bloodborne pathogen for onsite employees will be following an injury. When administering first aid care, there are potential hazards associated with bloodborne pathogens that cause diseases such as Human Immunodeficiency Virus (HIV), Hepatitis B (HBV), Hepatitis A (HAV), Hepatitis C (HCV), or the

Herpes Simplex Virus (HSV). An employee who has not received the appropriate certification should never execute first aid and/or CPR.

In order to minimize any potential pathogen exposure, all employees should use the hand washing facilities on a regular basis. Additionally, the following universal precautions shall be followed to prevent further potential risk:

- Direct skin or mucous membrane contact with blood shall be avoided.
- Open skin cuts or sores shall be covered to prevent contamination from infectious agents.
- Body parts shall be washed immediately after contact with blood or body fluids that might contain blood, even when gloves or other barriers have been used.
- Gloves and disposable materials used to clean spilled blood shall be properly disposed of in an approved hazardous waste container.
- First aid responders shall wear latex or thin mil nitrile gloves when performing any procedure risking contact with blood or body substances.
- Safety glasses with attached side shields will be worn to protect the eyes from splashing or aerosolization of body fluids.
- A CPR mask will be worn when performing CPR to avoid mouth-to-mouth contact.
- Appropriate work gloves will be worn to minimize the risk of injury to the hands and fingers when working on all equipment with sharp or rough edges.
- Never pick up broken glass or possible contaminated material with your unprotected hands.
- Never handle wildlife (living or deceased) encountered onsite.

6.4 Hazard Assessment

Task	Hazards	Risk of Exposure
Installation, gauging, purging and sampling of Monitoring Wells	Inhalation/Skin Contact	Moderate/High
	Heat Stress/Cold Stress	Moderate
	Physical Injury	Moderate
Installation and sampling of Soil Borings	Inhalation/Skin Contact	Moderate/High
	Heat Stress/Cold Stress	Moderate
	Physical Injury	Moderate
Installation and sampling of Soil Vapor Points	Inhalation	Moderate/High
	Heat Stress/Cold Stress	Moderate
	Physical Injury	Moderate

7.0 TRAINING

7.1 General Health and Safety Training

In accordance with Roux Associates' corporate policies, and pursuant to 29 CFR 1910.120, hazardous waste site workers shall, at the time of the job assignment, have received a minimum of 40 hours of initial health and safety training for hazardous waste site operations. As a minimum, the training shall have consisted of instruction in the topics outlined in the above reference. Personnel who have not met the requirements for initial training will not be allowed to work in any Site activities in which they may be exposed to hazards (chemical or physical).

Completion of a 40-hour Health and Safety Training Course for Hazardous Waste Operations or an approved equivalent will fulfill the requirements of this section.

Roux Associates' SSO has the responsibility of ensuring that personnel assigned to this project comply with these requirements.

7.2 Annual Eight-Hour Refresher Training

Current, annual 8-hour refresher training will be required of all hazardous waste site field personnel in order to maintain their qualifications for fieldwork. The following topics will be reviewed; toxicology, respiratory protection, medical surveillance, decontamination procedures, and personal protective clothing. In addition, topics deemed necessary by Roux Associates' Health and Safety Director may be added to the above list.

7.3 Site-Specific Training

Site personnel will receive documented training that will specifically address the activities, procedures, monitoring and equipment for Site operations. It will include Site and facility layout, hazards, first aid equipment locations and emergency services at the Site, and will highlight all provisions contained within this HASP. This training will also allow field workers to clarify anything they do not understand and to reinforce their responsibilities regarding safety and operations for their particular activity.

7.4 Onsite Safety Meetings

Daily-documented (Appendix E) pre-work safety meetings will be presented each morning to discuss the scope-of-work for that day, potential safety concerns and control measures for those identified safety hazards as per the JSAs (Appendix C) for the upcoming activities.

The briefings will also provide a forum to facilitate conformance with safety requirements and to identify performance deficiencies related to safety during daily activities or as a result of safety audits by Roux Associates or other involved parties.

7.5 First Aid and CPR

The SSO will identify those individuals having first aid and CPR training in order to ensure that emergency medical treatment is available during field activities. The training will be consistent with the requirements of the American Red Cross Association and, as applicable, the American Heart Association. Certification and appropriate training documentation will be kept with the Site personnel records.

7.6 Additional Training / Procedures

The OHSM may require additional or specialized training throughout the project. Such training shall be in the safe operation of heavy or power tool equipment or hazard communication training or other topic deemed Site appropriate.

8.0 MEDICAL SURVEILLANCE PROCEDURES

8.1 General

A Medical Surveillance Program has been established as part of this plan and is included in Appendix F. Roux Associates and subcontractor personnel performing field work at the Site are required to have passed a complete medical surveillance examination in accordance with 29 CFR 1910.120(f). A physician's medical release for work will be confirmed by the SSO before an employee can begin Site activities. Such examinations shall include a statement as to the worker's present health status, the ability to work in a hazardous environment (including any required PPE, which may be used during temperature extremes), and the worker's ability to wear respiratory protection.

In the event that personal medical information is needed for emergency treatment, information will be made available to the treating health care professional through Roux Associates' Human Resources Department and the OHSM.

9.0 SITE CONTROL, PERSONAL PROTECTIVE EQUIPMENT, AND COMMUNICATIONS

A modified Site control approach may be utilized since activities will be limited to site inspection and groundwater sampling. If additional work is necessary, the following four-zone approach will be used in order to prevent the spread of contamination from the disturbed areas onsite.

9.1 Site Control

If remedial activities are necessary, a four-zone approach will be employed. The four zones include: the Exclusion Zone (EZ), the Contamination Reduction Zone (CRZ), Contamination Reduction Corridor (CRC) and the Support Zone (SZ). A stepped remedial approach will be managed and the zones modified as the work progresses. Each of the areas will be defined through the use of control barricades and/or construction/hazard fencing. A clearly marked delineation between the SZ and the remaining three zones, the CRZ, CRC and EZ, will be maintained. The preferred method will utilize high visibility orange fencing and hand-driven metal posts, or orange cones. Signage will be posted to further identify and delineate these areas.

9.1.1 Support Zone

The Support Zone (SZ) is an uncontaminated area that will be the field support area for the Site operations. The SZ will contain the temporary project trailers and provides for field team communications and staging for emergency response. Appropriate sanitary facilities and safety equipment will be located in this zone. Potentially contaminated personnel or materials are not allowed in this zone. The only exception will be appropriately packaged/decontaminated and labeled samples. Meteorological conditions will be observed and noted from this zone, as well as those factors pertinent to heat and cold stress.

9.1.2 Contamination Reduction Zone

A Contamination Reduction Zone (CRZ) is established between the exclusion zone and the support zone. The CRZ contains the Contamination Reduction Corridor (CRC) and provides an area for decontamination of personnel and equipment. The CRZ will be used for general Site entry and egress in addition to access for heavy equipment and emergency support services. Personnel are not allowed in the CRZ without:

- A buddy (co-worker);
- Appropriate PPE;

- Medical authorization;
- Training certification; and
- A need to be in the zone.

9.1.3 Exclusion Zone

The area where contamination exists is considered to be the Exclusion Zone (EZ). All areas where excavation and handling of contaminated materials take place are considered the EZ. This zone will be clearly delineated by orange high visibility fencing. Safety tape may be used as a secondary delineation within the EZ. The zone delineation markings may be opened in areas for varying lengths of time to accommodate equipment operation or specific construction activities. The SSO may establish more than one EZ where different levels of protection may be employed or where different hazards exist. Personnel are not allowed in the EZ without:

- A buddy (co-worker);
- Required minimum-level PPE;
- Medical authorization;
- Training certification; and
- A need to be in the zone.

9.2 Personal Protective Equipment

The level of protection worn by field personnel will be enforced by the SSO. Levels of protection for general operations are provided below and are defined in this section. Levels of protection may be upgraded at the discretion of the SSO. All decisions on the level of protection will be based upon a conservative interpretation by the SSO of the information provided by air monitoring results, environmental results and other appropriate information. Any changes in the level of protection shall be recorded in the health and safety field logbook.

9.2.1 Personal Protective Equipment Specifications

The initial level of personal protective equipment is Level D. It is not anticipated that either Level B or Level C protection will be necessary.

The Minimum level of PPE for entry onto the Site is Level D PPE. The following equipment shall be used:

- Work uniform (long pants, sleeved shirt)
- Hard hat
- Steel toe work boots
- Safety glasses with attached side shields
- Boot covers (as needed)
- Hearing protection (as needed)
- High visibility clothing (shirt or vest)

Modified Level D PPE consists of the following:

- Regular Tyvek coveralls (Poly-coated Tyvek as required)
- Outer gloves: cut-resistant, leather, cotton (as required)
- Inner gloves: latex or nitrile (doubled) as required
- Chemical resistant boots over work boots (as required)
- Steel toe work boots
- Hard hat Safety glasses with attached side shields
- Hearing protection as needed

High visibility clothing (shirt or vest). Although not anticipated, any tasks requiring Level B personal protective equipment (PPE) will utilize the following equipment:

- Positive pressure, full facepiece, self-contained breathing apparatus (SCBA) or positive pressure, supplied air respirator with escape SCBA (NIOSH approved)
- Disposable coveralls (Tyvek, Poly-coated Tyvek, or Saranex)
- Gloves, inner: latex or nitrile
- Gloves, outer: cut-resistant
- Chemical resistant boots over the work boots
- Steel toe work boots

- Hard hat
- Hearing protection (as needed)
- Boot cover (as needed)

High visibility clothing (shirt or vest). For tasks requiring Level C PPE, the following equipment may be used in any combination:

- Full-face, air purifying, canister-equipped respirators (NIOSH approved) utilizing Organic Vapor/Acid Gas and P-100 filters (half-face if approved by SSO)
- Disposable coveralls (Tyvek) as required
- Gloves, inner: latex or nitrile as required
- Gloves, outer: cut-resistant
- Chemical resistant boots over the work boots as required
- Steel toe work boots
- Hard hat
- Hearing protection (as needed)
- Safety glasses with attached side shields (if half-mask is utilized)
- Boot covers (as needed)
- High visibility clothing (shirt or vest)

9.2.2 Site Specific Levels of Protection

Levels of protection for the proposed scope of work may be upgraded or downgraded depending on direct-reading instruments or personnel monitoring. The following are the initial levels of protection that shall be used for each planned field activity:

Activity	Initial Level of PPE
Installation, Gauging, Purging and Sampling of Monitoring Wells	D
Installation and sampling of Soil Borings	D
Installation and sampling of Soil Vapor Points	D

9.3 Communications

If working in level C/B respiratory protection is required, personnel may find that communication becomes a more difficult task and process to accomplish. Distance and space further complicate this. In order to address this problem, electronic instruments, mechanical devices, or hand signals will be used as follows:

Telephones – Mobile telephones will be carried by designated personnel for communication with emergency support services/facilities.

Radios – Two-way radios will be utilized onsite for communications between field personnel in areas where visual contact cannot be maintained and where hand signals cannot be employed.

Hand Signals – This communication method will be employed by members of the field team along with use of the buddy system. Signals become especially important when in the vicinity of heavy moving equipment and when using Level B respiratory equipment. The signals shall become familiar to the entire field team before Site operations commence, and will be reinforced and reviewed during site-specific training.

Signal	**Meaning**
Hand gripping throat	Out of air; can't breathe
Grip partner's wrist	Leave area immediately; no debate
Hands on top of head	Need assistance
Thumbs up	OK; I'm all right; I understand
Thumbs down	No; unable to understand you, I'm not all right

10.0 MONITORING PROCEDURES

10.1 General

Monitoring will be performed as necessary to verify the adequacy of respiratory protection, to aid in Site layout, and to document worker exposure. If real-time breathing zone air monitoring in these areas indicates the presence of potentially hazardous materials in exceedance of the Action Levels for Worker Breathing Zone (Table 2), the OHSM will be contacted and a plan for implementing appropriate control measures will be developed. A documented safety briefing to communicate the new procedures to onsite personnel will be conducted. All monitoring instruments shall be operated by qualified personnel only and will be calibrated daily prior to use or, more often, as necessary. Additional monitoring may be required if exclusion zones are employed for specific site activities. General air monitoring will be performed in accordance with the Generic Community Air Monitoring Plan included in Appendix G during intrusive Site activities.

10.2 Instrumentation

The following monitoring instruments will be available for use during field operations as necessary. There will be a minimum of one of each piece of equipment on the Site at all times during intrusive activities:

- Photoionization Detector (PID) with 10.6 EV probe or Flame Ionization Detector (FID) or equivalent.
- Dust/Particulate Monitor (DM), MIE Miniram, or equivalent.

A PID will be used to monitor VOCs in active work areas during intrusive activities. VOCs shall also be measured upwind of the work areas to determine background concentrations.

A particulate monitor shall be used to measure concentrations of dust and particulate matter.

When deemed necessary, a CGI/O_2/CO (or equivalent) meter shall be used to monitor for combustible gases, oxygen content and/ or carbon monoxide during confined space entry or when operating in areas with poor ventilation as the HSO deems necessary.

Calibration records shall be documented and recorded daily and included in the daily air monitoring report. This report will be specific to work area monitoring. All instruments shall be calibrated before and after each daily use in accordance with manufacturer's procedures.

10.3 Action Levels

Action levels for the upgrading of PPE requirements in the HASP will apply to all Site work during investigation and remediation activities at the Site. Action levels are for known contaminants using direct reading instruments in the Breathing Zone (BZ) for VOCs and particulates, and at the source for combustible gases. The BZ will be determined by the SSO, but is typically 4 to 5 feet above the work area surface or elevation. The action levels to be utilized for the Site are found in Table 2.

11.0 SAFETY CONSIDERATIONS

11.1 General

In addition to the specific requirements of this HASP, common sense should be used at all times. The following general safety rules and practices will be in effect at the site.

- Ignition sources within 35 feet of potentially flammable or contaminated material are strictly prohibited.
- Movement of vehicles and equipment, and other activities will be planned and performed with consideration for the location, height, and relative position of aboveground utilities and fixtures, including signs; lights; canopies; buildings and other structures and construction; and natural features such as trees, boulders, bodies of water, and terrain.
- Approved and appropriate safety equipment (as specified in this HASP), such as eye protection, hard hats, hand protection (nitrile, leather and/or cut resistant gloves as necessary), foot protection, and respirators, must be worn in areas where required.
- No eating, chewing tobacco, gum chewing or drinking will be allowed outside the SZ.
- Contaminated tools and hands must be kept away from the face.
- Personnel must use personal hygiene safe guards (washing up via hand towelettes or potable water) at the end of the shift.
- Each sample must be treated and handled as though it were contaminated.
- Persons with long hair and/or loose-fitting clothing that could become entangled in equipment (e.g., pumps, etc.) must take adequate precautions.
- Horseplay is prohibited in the work area.
- Work while under the influence of intoxicants, narcotics, or controlled substances is strictly prohibited.

11.2 Sample Handling

Personnel responsible for handling of samples will wear the prescribed modified Level D protection. Samples are to be identified as to their hazard and packaged as to prevent spillage or breakage. Any unusual sample conditions shall be noted. Laboratory personnel and all field personnel shall be advised of sample hazard levels and the potential contaminants present. This can be accomplished by a phone call to the lab coordinator and/or including a written statement with the samples reviewing lab safety procedures in handling in order to assure that the practices are appropriate for the suspected contaminants in the sample.

12.0 DECONTAMINATION AND DISPOSAL PROCEDURES

12.1 Contamination Prevention

Contamination prevention should minimize worker exposure and help ensure valid sample results by precluding cross-contamination. Procedures for contamination avoidance include:

Personnel

- Do not walk through areas of obvious or known contamination.
- Do not directly handle or touch contaminated materials.
- Make sure that there are no cuts or tears on PPE.
- Fasten all closures in suits; cover with tape, if necessary.
- Particular care should be taken to protect any skin injuries.
- Stay upwind of airborne contaminants.
- Do not carry cigarettes, cosmetics, gum, etc., into contaminated areas.

Sampling/Monitoring

- When required by the SSO, cover instruments with clear plastic, leaving openings for sampling ports and air exhaust.

12.2 Personnel Decontamination

If an exclusion zone (EZ) is employed at the site, a field wash for equipment and PPE shall be set up and maintained for all persons exiting the EZ. The system will include a gross wash and rinse for all disposable clothing and boots worn in the EZ. As necessary, equipment and facilities will be available for personnel to wash their hands, arms, neck, and face.

12.3 Equipment Decontamination

All potentially contaminated equipment used at the Site will be decontaminated to prevent contaminants from leaving the Site. The decontamination area will provide for the containment of all wastewater from the decontamination process. Respirators and any other PPE that comes in contact with contaminated materials shall pass through a field wash in the decontamination area, and a thorough decontamination at the end of the day. All decontamination rinse water will be collected and managed in accordance with all applicable regulations.

12.4 Decontamination during Medical Emergencies

If emergency life-saving first aid and/or medical treatment are required, normal decontamination procedures may need to be abbreviated or omitted. The Site SSO or designee will accompany contaminated victims to the medical facility to advise on matters involving decontamination, when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment, or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed, a plastic barrier between the individual and clean surfaces should be used to help prevent contaminating the inside of ambulances and/or medical personnel. Outer garments are then removed at the medical facility. Attempt to wash or rinse the victim if it is known that the individual has been contaminated with an extremely toxic or corrosive material, which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems (ambulatory) or injuries, the normal decontamination procedures will be followed. Note that heat stroke requires prompt treatment to prevent irreversible damage or death. Protective clothing must be promptly removed. Less serious forms of heat stress also require prompt attention and removal of protective clothing immediately. Unless the victim is obviously contaminated, decontamination should be omitted or minimized, and treatment begun immediately.

12.5 Disposal Procedures

A system of segregating all waste will be developed by the SSO.

All discarded materials, waste materials, or other objects shall be handled in such a way as to preclude the potential for spreading contamination, creating a sanitary hazard, or causing litter to be left onsite. All potentially contaminated materials (e.g., clothing, gloves, etc.,) will be bagged or drummed as necessary, labeled and segregated for disposal. All non-contaminated materials shall be collected, bagged and labeled for appropriate disposal as domestic waste. All waste materials will be staged at the site.

13.0 EMERGENCY PLAN

Should an emergency situation occur, the emergency plan, outlined in this section, shall be known by all onsite personnel prior to the start of work. The emergency plan will be available for use at all times during Site work. The plan provides the phone numbers for the fire, police, ambulance, hospital, poison control centers, and directions to the hospital from the Site. This information is to be found in Section 2 of this HASP.

Various individual Site characteristics will determine preliminary actions taken to assure that this emergency plan is successfully implemented in the event of a Site emergency. Careful consideration must be given to the proximity of neighborhood housing or places of employment, and to the relative possibility of Site release of vapors, which could affect the surrounding community.

The emergency coordinator shall implement the contingency plan whenever conditions at the Site warrant such action. The coordinator will be responsible for coordination of the evacuation, emergency treatment, and transport of Site personnel as necessary, and notification of emergency response units and the appropriate management staff.

In cases where the project principal or project manager is not available, the SSO shall serve as the alternate emergency coordinator.

The SSO during an emergency will perform air monitoring as needed, as well as lend assistance and provide health and safety information to responding emergency personnel.

Site Personnel will endeavor to keep non-essential personnel away from the incident until the appropriate emergency resources arrive. At that time the responders will take control of the Site. Site personnel may be asked to lend assistance to emergency personnel such as during evacuations, help with the injured, etc.

13.1 Evacuation

Evacuation procedures will be discussed prior to the start of work and periodically during safety meetings. In the event of an emergency situation, such as fire, or explosion, an air horn, automobile horn, or other appropriate device will be sounded for three (3) sharp blasts indicating

the initiation of evacuation procedures. The emergency evacuation route shall be known by all site workers. Under no circumstances will incoming personnel or visitors be allowed to proceed into the area once the emergency signal has been given. The SSO or project manager must ensure that access for emergency equipment is provided and that all combustion apparatuses have been shut down once the alarm has been sounded. All Site personnel will assemble in the designated nearest safe location. Once the safety of all personnel is established, the fire department and other emergency response groups will be notified by telephone of the emergency.

13.2 Personnel Injury

Emergency first aid shall be applied onsite as appropriate. For non-emergency situations, treatment should be sought, if needed, through the approved occupational health clinic. If necessary, the individual shall be decontaminated, if needed, and transported to the nearest hospital. The SSO will contact the Human Resources Director and OHSM if medical information is needed.

The ambulance/rescue squad shall be contacted for transport as necessary in an emergency. However, since some situations may require transport of an injured party by other means, the injured person shall be escorted to the occupational health clinic or hospital. Maps to these facilities are shown in Figure 2.

13.3 Accident/Incident Reporting

As soon as first aid and/or emergency response needs have been met, the following parties are to be contacted by telephone: (Direct contact, no phone messages).

		Office:	**Cell:**
1. Corporate Health & Safety Manager:	Joseph Gentile	(856) 423-8800	(610) 844-6911
2. Project Principal:	Craig Werle	(631) 232-2600	(631) 793-1535
3. Project Manager/SHSO:	Wendy Shen	(631) 232-2600	(631) 484-1333
4. Office Health and Safety Manager:	Ray Fitzpatrick	(631)-232-2600	(631) 484-1168

Written confirmations of verbal reports are to be submitted within 24 hours. The report form entitled "Accident Report and Investigation Form" (Appendix H) is to be used for this purpose. All representatives contacted by telephone are to receive a copy of this report. In addition to

filling out the Accident Report and Investigation Form, if a Roux employee is involved in a motor vehicle accident, the employee must also complete the Acord form (Appendix I).

For reporting purposes, the term accident refers to fatalities, lost time injuries, spill or exposure to hazardous materials (radioactive materials, toxic materials, explosive or flammable materials), fire, explosion, property damage, or potential occurrence (i.e., near miss) of the above.

Any information released from the health care provider, which is not deemed confidential patient information, is to be attached to the appropriate form. Any medical information, which is released by patient consent, is to be filed in the individual's medical record and treated as confidential.

13.4 Personnel Exposure

Skin Contact:	Use copious amounts of soap and water. Wash/rinse affected area thoroughly, then provide appropriate medical attention. Eyes should be rinsed for 15 minutes upon chemical contamination.
Inhalation:	Move to fresh air and/or, if necessary, decontaminate/transport to hospital.
Ingestion:	Decontamination and transport to emergency medical facility.
Puncture Wound or Laceration:	Decontamination and transport to emergency medical facility.

13.5 Adverse Weather Conditions

In the event of adverse weather conditions, the SSO or project manager will determine if work can continue without sacrificing the health and safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related conditions.
- Limited visibility.
- Electrical storm potential.

Site activities will be limited to daylight hours and acceptable weather conditions. Inclement working conditions include heavy rain, fog, high winds, and lightning. Observe daily weather reports and evacuate if necessary in case of inclement weather conditions.

13.5.1 Electrical Storm Guidelines

In the event that lightning and/or thunder are observed while working onsite, all onsite activities shall stop and personnel shall seek proper shelter (e.g., substantial building, enclosed vehicle, etc.). Work shall not resume until the threat of lighting has subsided and no lightning or thunder has been observed for 30 minutes. If the possibility of lightning is forecast for the day, advise the onsite personnel or the risks and proper procedure at the pre-work safety briefing. Continuously monitor for changing weather conditions and allow enough time to properly stop work if lightning if forecast.

14.0 LOGS, REPORTS AND RECORD KEEPING

The following is a summary of required health and safety logs, reports, and record keeping for this project.

14.1 Medical and Training Records

The employer keeps medical and training records. The subcontractor employer must provide verification of training and medical qualifications to the SSO. The SSO will keep a log of personnel meeting appropriate training and medical qualifications for Site work. The log will be kept in the project file. Roux Associates will maintain medical records in accordance with 29 CFR 1910.20.

14.2 Onsite Log

The SSO or project manager will keep a log of onsite personnel daily in the designated field book.

14.3 Exposure Records

Applicable personal monitoring results, laboratory reports, calculations, and air sampling data sheets are part of an employee exposure record. These records will be kept by Roux Associates in accordance with 29 CFR 1910.20.

14.4 Near Loss Reports

A near loss report must be completed following procedures given in Appendix J. The originals will be sent to Roux Associates for maintenance. Copies will be distributed as stated. A copy of the forms will be kept in the project file.

14.5 Accident/Incident Reports

For any injury (OSHA Recordable or not), including "FYI" injuries (injuries where pain was felt, but not even first aid treatment was needed), and illnesses, all work on the activity where the injury/illness occurred will be stopped. An accident/incident report must be completed following procedures given in Appendix H. The originals will be sent to Roux Associates for maintenance. Copies will be distributed as stated. A copy of the forms will be kept in the project file.

14.6 OSHA Form 300

An OSHA Form 300 (Log of Occupational Injuries and Illnesses) (Appendix K) will be kept at the Site. All reportable injuries or illnesses will be recorded on this form. At the end of the project, the original will be sent to Roux Associates for maintenance.

14.7 Daily Health and Safety Briefing

The Daily Health and Safety Briefing form in Appendix E will be completed daily by the SSO and submitted to the project manager.

15.0 FIELD TEAM REVIEW

Each Roux Associates employee or subcontractor shall sign this section after site-specific training is completed and before being permitted to work at the Site.

I have read and had Roux Associates verbally review this Health and Safety Plan prepared for this Site with me. I understand and will comply with the provisions contained therein.

Site/Project: 239 10th Avenue, New York, New York 10001

Date	Name	Signature	Company

TABLES

1. Toxicological, Physical and Chemical Properties of Compounds Potentially Present at the Site
2. Action Levels for Worker Breathing Zone

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
1,2,4-Trimethylbenzene	95-63-6	None established	TWA 25 ppm (125mg/m^3)	None established	N.D.	Inhalation; ingestion; skin and/or eye contact	Eye, skin, nose, and throat, resp syst irritation; bronchitis; hypochromic anemia; headache, drowsiness, weakness, dizziness, nausea, incoordination, vomit, confusion; chemical pneumonitis	Eyes, skin, resp sys, CNS, blood	Clear, colorless liquid with a distinctive, aromatic odor BP: 337°F FL.P: 112°F UEL: 6.4% LEL: 0.9% Class II Flammable liquid
1,2,4-Trimethylbenzene	95-63-6	TWA 25 ppm (125 mg	TWA 25 ppm (125 mg/m^3)	None established	N.D.	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, fatigue, dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eyes, skin, respiratory system, central nervous system, blood	Clear, colorless liquid with a distinctive, aromatic odor. BP: 337°F Fl.P: 112°F UEL: 6.4% LEL: 0.9% Class II Flammable Liquid
1,2-Dichlorobenzene	95-50-1	TWA 25 ppm STEL 50 ppm	C 50 ppm (300 mg/m^3)	C 50 ppm (300 mg/m^3)	200 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose; liver, kidney damage; skin blisters	Eyes, skin, respiratory system, liver, kidneys	Colorless to pale-yellow liquid with a pleasant, aromatic odor. [herbicide] BP: 357°F Fl.P: 151°F UEL: 9.2% LEL: 2.2% Class IIIA Combustible Liquid
1,2-Dichloroethane	107-06-2	TWA 10 ppm	Ca TWA 1 ppm (4 mg/m^3) STEL 2 ppm (8 mg/m^3)	TWA 50 ppm C 100 ppm 200 ppm [5-minute maximum peak in any 3 hours]	Ca [50 ppm]	inhalation, ingestion, skin absorption, skin and/or eye contact	Irritation eyes, corneal opacity; central nervous system depression; nausea, vomiting; dermatitis; liver, kidney, cardiovascular system damage; [potential occupational carcinogen]	Eyes, skin, kidneys, liver, central nervous system, cardiovascular system	Colorless liquid with a pleasant, chloroform-like odor. [Note: Decomposes slowly, becomes acidic & darkens in color.] BP: 182°F Fl.P: 56°F UEL: 16% LEL: 6.2% Class IB Flammable Liquid
1,2-Dichloroethene (total)	540-59-0	TWA 200 ppm (790 m	TWA 200 ppm (790 mg/m^3)	TWA 200 ppm (790 mg/m^3)	1000 ppm	inhalation, ingestion, skin and/or eye contact	Irritation eyes, respiratory system; central nervous system depression	Eyes, respiratory system, central nervous system	Colorless liquid (usually a mixture of the cis & trans isomers) with a slightly acrid, chloroform-like odor BP: 118-140°F Fl.P: 36-39°F UEL: 12.8% LEL: 5.6% Class IB Flammable Liquid
1,3,5-Trimethylbenzene	108-67-8	None established	TWA 25 ppm (125mg/m^3)	None established	N.D.	Inhalation; ingestion; skin and/or eye contact	Eye, skin, nose, and throat, resp syst irritation; bronchitis; hypochromic anemia; headache, drowsiness, weakness, dizziness, nausea, incoordination, vomit, confusion; chemical pneumonitis	Eyes, skin, resp sys, CNS, blood	Clear, colorless liquid with a distinctive, aromatic odor BP: 329°F FL.P: 122°F Class II Flammable liquid

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
1,3,5-Trimethylbenzene	108-67-8	TWA 25 ppm (125 mg	TWA 25 ppm (125 mg/m^3)	None established	N.D	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eyes, skin, respiratory system, central nervous system, blood	Clear, colorless liquid with a distinctive, aromatic odor. BP: 329°F Fl.P: 122°F Class II Flammable Liquid
1,4-Dichlorobenzene	106-46-7	TWA 10 ppm	Ca	TWA 75 ppm (450 mg/m^3)	Ca [150 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Eye irritation, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Liver, respiratory system, eyes, kidneys, skin	Colorless or white crystalline solid with a mothball-like odor. [insecticide] BP: 345°F Fl.P: 150°F LEL: 2.5% Combustible Solid
2,4-Dimethylphenol	105-67-9	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, respiratory system, mouth, throat, stomach; dizziness, weakness, fatigue, nausea, headache; systemic damage; moderate to severe eye injury.	Skin, CVS, eyes, CNS	Clear, colorless liquid with a faint ether or chloroform-like odor BP: 178°F
2-Butanone (MEK)	78-93-3	TWA 200 ppm (590 mg/m^3) STEL 300 ppm (885 mg/m^3)	TWA 200 ppm (590 mg/m^3) STEL 300 ppm (885 mg/m^3)	TWA 200 ppm (590 mg/m^3)	3000 ppm	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose; headache; dizziness; vomiting; dermatitis	Eyes, skin, respiratory system, central nervous system	Colorless liquid with a moderately sharp, fragrant, mint- or acetone-like odor. BP: 175°F Fl.P: 16°F UEL(200°F): 11.4% LEL(200°F): 1.4% Class IB Flammable Liquid
Acenaphthene	83-32-9	None established	None established	None established	None established	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, respiratory system	Eyes, skin, respiratory system	Brown solid
Acetone	67-64-1	TWA 500 ppm STEL 50 ppm	TWA 250 ppm (590 mg/m^3)	TWA 1000 ppm (2400 mg/m^3)	2500 ppm [10%LEL]	inhalation, ingestion, skin and/or eye contact	Irritation eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis	Eyes, skin, respiratory system, central nervous system	Colorless liquid with a fragrant, mint-like odor BP: 133°F Fl.P: 0°F UEL: 12.8% LEL: 2.5% Class IB Flammable Liquid
Anthracene	65996-93-2	TWA 0.2 mg/m^3	Ca TWA 0.1 mg/m^3 (cyclohexane-extractable fraction)	TWA 0.2 mg/m^3 (benzene-soluble fraction)	Ca [80 mg/m^3]	inhalation, skin and/or eye contact	Dermatitis, bronchitis, [potential occupational carcinogen]	respiratory system, skin, bladder, kidneys	Black or dark-brown amorphous residue. Combustible Solids
Antimony	7440-36-0	TWA 0.5 mg/m^3	TWA 0.5 mg/m^3	TWA 0.5 mg/m^3	50 mg/m^3 (as Sb	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, mouth; cough; dizziness; headache; nausea, vomiting, diarrhea; stomach cramps; insomnia; anorexia; unable to smell properly	Eyes, skin, respiratory system, cardiovascular system	Silver-white, lustrous, hard, brittle solid; scale-like crystals; or a dark-gray, lustrous powder. BP: 2975°F

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Arsenic (inorganic)	7440-38-2 (metal)	TWA 0.01 mg/m3	Ca C 0.002 mg/m3 [15-min]	TWA 0.010 mg/m3	Ca [5 mg/m3 (as As)]	Inhalation; ingestion; skin absorption; skin and/or eye contact	Ulceration of nasal septum, dermatitis, GI disturbances, peripheral neuropathy, resp irritation, hyperpigmentation of skin, [potential occupational carcinogen]	Liver, kidneys, skin, lungs, lymphatic sys	Metal: sliver-gray or tin-white, brittle, odorless solid BP: sublimes
Asbestos	1332-21-4	TWA 0.1 f/cc	Ca 100,000 fibers/m3	TWA 0.1 fiber/cm3	Ca [IDLH value has not been determined]	Inhalation; ingestion; skin and/or eye contact	Asbestosis (chronic exposure), dyspnea, interstitial fibrosis, restricted pulmonary function, finger clubbing, irritation eyes, [potential occupational carcinogen]	Respiratory system, eyes,	White or greenish (chrysotile), blue (crocidolite), or gray-green (amosite), fibrous, odorless solids. BP: decomposes
Asphalt fumes	8052-42-4	TWA 0.5 mg/m^3(fumes)	Ca C 5 mg/m3 [15 min]	None established	Ca [IDLH value has not been determined]	Skin absorption; inhalation; skin and/or eye contact	Irritation eyes, resp sys	Eyes, respiratory system	Black or dark brown cement-like substance Combustible solid
Barium	7440-39-3	TWA 0.5 mg/m3	None established	TWA 0.5 mg/m3	None established	Inhalation, ingestion, skin contact	Irritation skin, respiratory system, (	Skin, eyes, respiratory system	Yellow white powder BP: 1640 C
Benzene	71-43-2	TWA 0.5 ppm STEL 2.5 ppm	Ca TWA 0.1 ppm STEL 1 ppm	TWA 1 ppm STEL 5 ppm	Ca [500 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression; [potential occupational carcinogen]	Eyes, skin, respiratory system, blood, central nervous system, bone marrow	Colorless to light yellow liquid with an aromatic odor [Note: Solid below 42 °F] BP: 176°F Fl.Pt = 12°F LEL: 1.2% UEL: 7.8% Class B Flammable liquid
Benzo[a]anthracene	56-55-3	None established	None established	None established	None established	Inhalation; ingestion; skin absorption; skin and/or eye contact	Irritation eyes, skin, respiratory system, CNS	Skin	Pale Yellow crystal, solid BP: 438 C
Benzo[a]pyrene	50-32-8	None established	TWA 0.1 mg/m3	TWA 0.2 mg/m3	None established	Inhalation; ingestion; skin absorption; skin and/or eye contact	POISON. This material is an experimental carcinogen, mutagen, tumorigen, neoplastigen and teratogen. It is a probable carcinogen in humans and a known human mutagen. IARC Group 2A carcinogen. It is believed to cause bladder, skin and lung cancer. Exposure to it may damage the developing foetus. May cause reproductive damage. Skin, respiratory and eye irritant or burns.	Skin, eye, bladder, lung, reproductive	Yellow crystals or powder [found in cigarette smoke, coal tar, fuel exhaust gas and in many other sources] BP: 495 C
Benzo[b]fluoranthene	205-99-2	None established	TWA 0.1 mg/m3	TWA 0.2 mg/m3	None established	Inhalation; ingestion; skin and/or eye contact	No data were identified on the toxicity of benzo[b]fluoranthene to humans. Based on results of studies in animals, IARC concluded that benzo[b]fluoranthene is possibly carcinogenic to humans	Respiratory system, skin, bladder, kidneys	Off-white to tan powder

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Benzo[k]fluoranthene	207-08-9	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, respiratory tract, gastrointestinal; fatal if swallowed, inhaled, absorbed through the skin; vomiting, nausea, diarrhea	Lungs, respiratory system	Yellow crystals BP: 480 C
Beryllium	7440-41-7 (metal)	TWA 0.002 mg/m^3	Ca C 0.0005 mg/m^3	TWA 0.002 mg/m^3 C 0.005 mg/m^3 (30 minutes) with a maximum peak of 0.025 mg/m^3	Ca [4 mg/m^3 (as Be)]	inhalation, skin and/or eye contact	Berylliosis (chronic exposure): anorexia, weight loss, lassitude (weakness, exhaustion), chest pain, cough, clubbing of fingers, cyanosis, pulmonary insufficiency; irritation eyes; dermatitis; [potential occupational carcinogen]	Eyes, skin, respiratory system	Metal: A hard, brittle, gray-white solid. BP: 4532°F
Bis(2-ethylhexyl) phthalate	117-81-7	TWA 5 mg/m^3	TWA 5 mg/m^3 STEL 10 mg/m^3 (do not exceed during andy 15-minute work period)	TWA 5 mg/m^3	None established	inhalation, skin and/or eye contact	Irritation eyes, skin, nose, throat; affect the nervous system and liver; damage to male reproductive glands	Eyes, skin, nose, respiratory system, nervous system, reproductive system, liver	Colorless to light colored, thick liquid with slight odor
Butane	106-97-8	TWA 1000 ppm	TWA 800 ppm (1900 mg/m^3)	None established	None established	inhalation, skin and/or eye contact (liquid)	Drowsiness, narcosis, asphyxia; liquid: frostbite	central nervous system	Colorless gas with a gasoline-like or natural gas odor. BP: 31°F UEL: 8.4% LEL: 1.6% Flammable Gas
Cadmium	7440-43-9 (metal)	TWA 0.01 mg/m^3	Ca	TWA 0.005 mg/m^3	Ca [9 mg/m^3 (as Cd)]	inhalation, ingestion	Pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia (loss of the sense of smell), emphysema, proteinuria, mild anemia; [potential occupational carcinogen]	respiratory system, kidneys, prostate, blood	Metal: Silver-white, blue-tinged lustrous, odorless solid. BP: 1409°F
Carbon Disulfide	75-15-0	TWA 1 ppm	TWA 1 ppm (3 mg/m^3) STEL 10 ppm (30 mg/m^3) [skin]	TWA 20 ppm C 30 ppm 100 ppm (30-minute maximum peak)	500 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Dizziness, headache, poor sleep, lassitude (weakness, exhaustion), anxiety, anorexia, weight loss; psychosis; polyneuropathy; Parkinson-like syndrome; ocular changes; coronary heart disease; gastritis; kidney, liver injury; eye, skin burns; dermatitis; reproductive effects	central nervous system, peripheral nervous system, cardiovascular system, eyes, kidneys, liver, skin, reproductive system	Colorless to faint-yellow liquid with a sweet ether-like odor. BP: 116°F Fl.P: -22°F UEL: 50.0% LEL: 1.3% Class IB Flammable Liquid
Chlorobenzene	108-90-7	TWA 10 ppm	None established	TWA 75 ppm (350 mg/m^3)	1000 ppm	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose; drowsiness, incoordination; central nervous system depression; in animals: liver, lung, kidney injury	Eyes, skin, respiratory system, central nervous system, liver	Colorless liquid with an almond-like odor BP: 270°F Fl.P: 82°F UEL: 9.6% LEL: 1.3%

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Chloroethane	75-00-3	TWA 100ppm	Handle with caution in the workplace	TWA 1000 ppm (2600 mg/m^3)	3800 ppm [10%LEL]	inhalation, skin absorption (liquid), ingestion (liquid), skin and/or eye contact	Incoordination, inebriation; abdominal cramps; cardiac arrhythmias, cardiac arrest; liver, kidney damage	Liver, kidneys, respiratory system, cardiovascular system, central nervous system	Colorless gas or liquid (below 54°F) with a pungent, ether-like odor. BP: 54°F Fl.P: NA (Gas) -58°F (Liquid) UEL: 15.4% LEL: 3.8%
Chloroform	67-66-3	TWA 10 ppm	Ca STEL 2 ppm (9.78 mg/m^3) [60-minute]	C 50 ppm (240 mg/m^3)	Ca [500 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; dizziness, mental dullness, nausea, confusion; headache, lassitude (weakness, exhaustion); anesthesia; enlarged liver; [potential occupational carcinogen]	Liver, kidneys, heart, eyes, skin, central nervous system	Colorless liquid with a pleasant odor BP: 143°F
Chromium	7440-47-3	TWA 0.5 mg/m^3 (metal and Cr III compounds) TWA 0.05 mg/m^3 (water-soluble Cr IV compounds) TWA 0.01 mg/m^3 (insoluble Cr IV compounds)	TWA 0.5 mg/m^3	TWA 1 mg/m^3	250 mg/m^3 (as Cr)	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin; lung fibrosis (histologic)	Eyes, skin, respiratory system	Blue-white to steel-gray, lustrous, brittle, hard, odorless solid. BP: 4788°F
Chrysene; Phenanthrene; Pyrene; Coal tar pitch volatiles	65996-93-2	TWA 0.2 mg/m3	Ca TWA 0.1 mg/m^3 (cyclohexane-extractable fraction)	TWA 0.2 mg/m^3 (benzene-soluble fraction)	Ca [80 mg/m^3]	Inhalation, skin and/or eye contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory system, skin, bladder, kidneys	Black or dark-brown amorphous residue. Combustible Solids
cis-1,2-Dichloroethene	158-59-2	TWA 200 ppm	TWA 200 ppm	TWA 200 ppm	None established	inhalation, skin absorption, ingestion	Harmful if swallowed, inhaled, or absorbed through skin. Irritant. Narcotic. Suspected carcinogen	Skin	Colorless liquid BP: 60 C Fl.P: 4 C UEL: 12.8% LEL: 9.7 %
Copper	7440-50-8	TWA 0.2mg/m^3 (fume) 1 mg/m^3 (dusts and mists)	TWA 1 mg/m^3	TWA 1 mg/m^3	100 mg/m^3 (as Cu)	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, respiratory system; cough, dyspnea (breathing difficulty), wheezing	Eyes, skin, respiratory system, liver, kidneys (increase(d) risk with Wilson's disease)	Noncombustible Solid in bulk form, but powdered form may ignite. BP: 4703°F
Dibenzo[a,h]anthracene	53-70-3	None established	None established	None established	None established	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin	Eyes, skin; skin photosensitization.	Colorless crystalline powder BP: 524°C
Diesel Fuel #2	68476-34-6	None established	None established	Designated as an OSHA Select Carcinogen	None established	ingestion, skin and/or eye contact	Kidney damage; potential lung damage; suspected carcinogen; irritation of eyes, skin, respiratory tract; dizziness, headache, nausea; chemical pneumonitis (from aspiration of liquid); dry, red skin; irritant contact dermatitis; eye redness, pain.	Eyes, skin, kidneys	Clear yellow brown combustible liquid; floats on water; distinct diesel petroleum hydrocarbon odor. BP: 356-716°F Fl.P: 154.4-165.2°F LEL: 0.6% UEL: 7.0%
Ethylbenzene	100-41-4	TWA 100 ppm STEL 125 ppm	TWA 100 ppm (435 mg/m^3) STEL 125 ppm (545 mg/m^3)	TWA 100 ppm (435 mg/m^3)	800 ppm [10%LEL]	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	Eyes, skin, respiratory system, central nervous system	Colorless liquid with an aromatic odor. BP: 277°F Fl.P: 55°F UEL: 6.7% LEL: 0.8% Class IB Flammable Liquid

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Fluoranthene	206-44-0	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; possible burns; heart and liver injury, pulmonary edema, respiratory arrest, gastrointestinal disturbances.	Heart, liver, lungs.	Yellow needles.
Fluorene	86-73-7	None established	None established	None established	None established	inhalation, ingestion, skin and/or eye contact	Irritation skin, digestive tract	Skin	White crystals BP: 563°F
Fuel Oil #2	68476-30-2	TWA 100mg/m^3 (aerosol and vapor, as total hydrocarbons)	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; CNS effects; nausea, vomiting, headache, cramping, dizziness, weakness, loss of coordination,, drowsiness; kidney, liver damage	Eyes, skin, CNS	Clear or yellow to red oily liquid, kerosene-like odor BP: 347 - 689 °F UEL:5-6% LEL: 0.7-1.0%
Gasoline	8006-61-9	TWA 300 ppm STEL 500 ppm	Carcinogen	None established	Ca [IDLH value has not been determined]	Skin absorption; inhalation; ingestion; skin and/or eye contact	Eyes and skin irritation, mucous membrane; dermatitis; headache; listlessness, blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis; possible liver, kidney damage [Potential occupational carcinogen]	Eyes, skin, respiratory system, CNS, Liver, Kidneys	Clear liquid with a characteristic odor, aromatic Fl.Pt = -45°F LEL = 1.4% UEL = 7.6% Classs 1B Flammable Liquid
Hexachlorobutadiene	87-68-3	TWA 0.02 ppm	Ca TWA 0.02 ppm (0.24 mg/m^3) [skin]	None established	Ca [N.D.]	inhalation, skin absorption, ingestion, skin and/or eye contact	In animals: irritation eyes, skin, respiratory system; kidney damage; [potential occupational carcinogen]	Eyes, skin, respiratory system, kidneys	Clear, colorless liquid with a mild, turpentine-like odor. BP: 419°F
Hydrogen Sulfide	7783-06-4	TWA (1 ppm) STEL (5 ppm) (adopted values for which changes are proposed in the NIC)	C 10 ppm (15 mg/m^3) [10-minute]	C 20 ppm 50 ppm [10-minute maximum peak]	100 ppm	inhalation, skin and/or eye contact	Irritation eyes, respiratory system; apnea, coma, convulsions; conjunctivitis, eye pain, lacrimation (discharge of tears), photophobia (abnormal visual intolerance to light), corneal vesiculation; dizziness, headache, lassitude (weakness, exhaustion), irritability, insomnia; gastrointestinal disturbance; liquid: frostbite	Eyes, respiratory system, central nervous system	Colorless gas with a strong odor of rotten eggs. BP: -77°F UEL: 44.0% LEL: 4.0% Flammable Gas
Indeno[1,2,3-cd]pyrene	193-39-5	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; possible human carcinogen (skin); weakness; affect liver, lung tissue, renal tissue; impariment of blood forming tissue	Skin	Fluorescent green-yellow crystalline solid BP: 536 C
Indeno[1,2,3-cd]pyrene	193-39-5	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; possible human carcinogen (skin); weakness; affect liver, lung tissue, renal tissue; impariment of blood forming tissue	Skin	Yellowish crystal solid BP: 536 C

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Isopropylbenzene	98-82-8	TWA 50 ppm	TWA 50 ppm (245 mg/m^3) [skin]	TWA 50 ppm (245 mg/m^3) [skin]	900 ppm [10%LEL]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; dermatitis; headache, narcosis, coma	Eyes, skin, respiratory system, central nervous system	Colorless liquid with a sharp, penetrating, aromatic odor. BP: 306°F Fl.P: 96°F UEL: 6.5% LEL: 0.9%
Kerosene	8008-20-6	TWA 200 mg/m^3	TWA 100 mg/m^3	None established	IDLH value has not been determined	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eyes, skin, respiratory system, central nervous system	Colorless to yellowish, oily liquid with a strong, characteristic odor. BP: 347-617°F Fl.P: 100-162°F UEL: 5% LEL: 0.7% Class II Combustible Liquid
Lead	7439-92-1	TWA 0.05 mg/m^3	TWA (8-hour) 0.050 mg/m^3	TWA 0.050 mg/m^3	100 mg/m^3 (as Pb)	inhalation, ingestion, skin and/or eye contact	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension	Eyes, gastrointestinal tract, central nervous system, kidneys, blood, gingival tissue	A heavy, ductile, soft, gray solid. BP: 3164°F Noncombustible Solid in bulk form
Manganese	7439-96-5 (metal)	TWA 0.2 mg/m^3	TWA 1 mg/m^3 STEL 3 mg/m^3	C 5 mg/m^3	500 mg/m^3 (as Mn)	inhalation, ingestion	Manganism; asthenia, insomnia, mental confusion; metal fume fever: dry throat, cough, chest tightness, dyspnea (breathing difficulty), rales, flu-like fever; low-back pain; vomiting; malaise (vague feeling of discomfort); lassitude (weakness, exhaustion); kidney damage	respiratory system, central nervous system, blood, kidneys	A lustrous, brittle, silvery solid. BP: 3564°F
Mercury (organo) alkyl compounds (as Hg)	7439-97-6	TWA 0.01 mg/m^3 STEL 0.03 mg/m^3 [skin]	TWA 0.01 mg/m^3 STEL 0.03 mg/m^3 [skin]	TWA 0.01 mg/m^3 C 0.04 mg/m^3	2 mg/m^3 (as Hg)	inhalation, skin absorption, ingestion, skin and/or eye contact	Paresthesia; ataxia, dysarthria; vision, hearing disturbance; spasticity, jerking limbs; dizziness; salivation; lacrimation (discharge of tears); nausea, vomiting, diarrhea, constipation; skin burns; emotional disturbance; kidney injury; possible teratogenic effects	Eyes, skin, central nervous system, peripheral nervous system, kidneys	Appearance and odor vary depending upon the specific (organo) alkyl mercury compound
Mercury compounds [except (organo) alkyls] (as Hg) Mercury	7439-97-6	TWA 0.025 mg/m^3 (elemental and inorganic forms)	Hg Vapor: TWA 0.05 mg/m^3 [skin] Other: C 0.1 mg/m3 [skin]	TWA 0.1 mg/m^3	10 mg/m^3 (as Hg)	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria	Eyes, skin, respiratory system, central nervous system, kidneys	Metal: Silver-white, heavy, odorless liquid. [Note: "Other" Hg compounds include all inorganic & aryl Hg compounds except (organo) alkyls.] BP: 674°F

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Methyl tert-butyl ether (MTBE)	1634-04-4	TWA 50 ppm	No established REL	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, mucous membrane, respiratory; dizziness, nausea, headache, intoxication	Eyes, skin, mucous membrane, respiratory system, central nervous system	Colorless liquid BP: 55.2 C
Methylene Chloride	75-09-2	TWA 50 ppm, A3 - suspected human carcinogen	Ca	TWA 25 ppm STEL 125 ppm	Ca [2300 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; lassitude (weakness, exhaustion), drowsiness, dizziness; numbness, tingle limbs; nausea; [potential occupational carcinogen]	Eyes, skin, cardiovascular system, central nervous system	Colorless liquid with a chloroform-like odor BP: 104°F UEL: 23% LEL: 13%
Naphtha (coal tar)	8030-30-6	None established	TWA 100 ppm (400 mg/m^3)	TWA 100 ppm (400 mg/m^3)	1000 ppm [10%LEL]	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose; dizziness, drowsiness; dermatitis; in animals: liver, kidney damage	Eyes, skin, respiratory system, central nervous system, liver, kidneys	Reddish-brown, mobile liquid with an aromatic odor BP: 320-428°F Fl.P: 100-109°F Class II Combustible Liquid
Naphthalene	91-20-3	TWA 10 ppm STEL 15 ppm	TWA 10 ppm (50 mg/m^3) STEL 15 ppm (75 mg/m^3)	TWA 10 ppm (50 mg/m^3)	250 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; jaundice; hematuria (blood in the urine), renal shutdown; dermatitis, optical neuritis, corneal damage	Eyes, skin, blood, liver, kidneys, central nervous system	Colorless to brown solid with an odor of mothballs. BP: 424°F Fl.P: 174°F UEL: 5.9% LEL: 0.9%
n-Butylbenzene	104-51-8	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; CNS depression, lung damage; nausea, vomiting, headache, dizziness, weakness, loss of coordination, blured vision, drowsiness, confusion, disorientation	Eyes, skin,repiratory system, central nervous system	Colorless liquid with a sweet odor BP: 183 C Fl.P: 59 C UEL: 5.8% LEL: 0.8%
Nickel	7440-02-0 (Metal)	TWA 1.5 mg/m^3 (elemental) TWA 0.1 mg/m^3 (soluble inorganic compounds) TWA 0.2 mg/m^3 (insoluble inorganic compounds) TWA 0.1 mg/m^3 (Nickle subsulfide)	Ca TWA 0.015 mg/m^3	TWA 1 mg/m^3	Ca [10 mg/m^3 (as Ni)]	inhalation, ingestion, skin and/or eye contact	Sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Nasal cavities, lungs, skin	Metal: Lustrous, silvery, odorless solid. BP: 5139°F
Nitrobenzene	98-95-3	TWA 1 ppm	TWA 1 ppm (5 mg/m^3) [skin]	TWA 1 ppm (5 mg/m^3) [skin]	200 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; anoxia; dermatitis; anemia; methemoglobinemia; in animals: liver, kidney damage; testicular effects	Eyes, skin, blood, liver, kidneys, cardiovascular system, reproductive system	Yellow, oily liquid with a pungent odor like paste shoe polish. BP: 411°F Fl.P: 190°F LEL(200°F): 1.8%
n-Propylbenzene	103-65-1	None established	None established	None established	None established	inhalation, ingestion, skin and/or eye contact	Harmful if swallowed, Irritation eyes, skin, digestive tract, respiratory tract, central nervous system	Eyes, skin, central nervous system, respiratory system	colorless or light yellow liquid BP: 159 C Fl.P: 47 C UEL: 6% LEL: 0.8%

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Petroleum hydrocarbons(Petroleum distillates)	8002-05-9	None established	TWA 350 mg/m^3 C 1800 mg/m^3 [15 min]	TWA 500 ppm (2000 mg/m^3)	1,100 [10% LEL]	Inhalation; ingestion; skin and/or eye contact	Irritation eyes, skin, nose, throat; dizziness, drowsiness, headache, nausea; dried/cracked skin; chemical pneumonitis	CNS, eyes, respiratory system, skin	Colorless liquid with a gasoline or kerosene-like odor BP: 86-460°F Fl. Pt = -40 to -86°F UEL: 5.9% LEL: 1.1% Flammable liquid
Phenol	108-95-2	TWA 5 ppm	TWA 5 ppm (19 mg/m^3) C 15.6 ppm (60 mg/m^3) [15-minute] [skin]	TWA 5 ppm (19 mg/m^3) [skin]	250 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose, throat; anorexia, weight loss; lassitude (weakness, exhaustion), muscle ache, pain; dark urine; cyanosis; liver, kidney damage; skin burns; dermatitis; ochronosis; tremor, convulsions, twitching	Eyes, skin, respiratory system, liver, kidneys	Colorless to light-pink, crystalline solid with a sweet, acrid odor. BP: 359°F UEL: 8.6% LEL: 1.8%
p-Isopropyltoluene	99-87-6	None established	None established	None established	None established	inhalation, skin absorption, eye contact	Irritation skin	CNS, skin	Colorless, clear liquid, sweetish aromatic odor BP: 350.8°F Class III Flammable liquid
sec-Butylbenzene	135-98-8	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, upper airway; central nervous system, headache, dizziness; gastrointestinal disturbance	Respiratory system, central nervous system, eyes, skin;	Colorless liquid BP: 344°F Fl.P: 126 °F UEL: 6.9% LEL: 0.8% Combustible liquid
Selenium	7782-49-2	TWA 0.2 mg/m^3	TWA 0.2 mg/m^3	TWA 0.2 mg/m^3	1 mg/m^3 (as Se)	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat; visual disturbance; headache; chills, fever; dyspnea (breathing difficulty), bronchitis; metallic taste, garlic breath, gastrointestinal disturbance; dermatitis; eye, skin burns; in animals: anemia; liver necrosis, cirrhosis; kidney, spleen damage	Eyes, skin, respiratory system, liver, kidneys, blood, spleen	Amorphous or crystalline, red to gray solid. [Note: Occurs as an impurity in most sulfide ores.] BP: 1265°F
Silver	7440-22-4 (metal)	TWA 0.1 mg/m^3 (metal, dust, fumes) TWA 0.01 mg/m^3 (Soluble compounds, as Ag)	TWA 0.01 mg/m^3	TWA 0.01 mg/m^3	10 mg/m^3 (as Ag)	inhalation, ingestion, skin and/or eye contact	Blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance	Nasal septum, skin, eyes	Metal: White, lustrous solid BP: 3632°F
Slop Oil	69029-75-0	None established	None established	None established	None established	Inhalation; ingestion	Irritation eyes, skin, gastrointestinal tract	Eyes, skin, gastrointestinal tract	Clear light to dark amber liquid, with mild hydrocarbon odor. BP: >500°F Fl.P : 250°F
Sulfuric Acid	7664-93-9	TWA 0.2 mg/m^3	TWA 1 mg/m^3	TWA 1 mg/m^3	15 mg/m^3	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis; dental erosion; eye, skin burns; dermatitis	Eyes, skin, respiratory system, teeth	Colorless to dark-brown, oily, odorless liquid. BP: 554°F Noncombustible Liquid

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
tert-Butylbenzene	98-06-6	None established	None established	None established	None established	inhalation, skin absorption, ingestion,	Eye and respiratory irritant; CNS depression; liver or kidney damage	Respiratory system, central nervous system, eyes, liver, kidney	Colorless liquid with an aromatic odor BP: 168 - 169 C Fl.P: 34 C UEL:5.6 % LEL: 0.8 %
Toluene	108-88-3	TWA 20 ppm	TWA 100 ppm (375 mg/m^3) STEL 150 ppm (560 mg/m^3)	TWA 200 ppm C 300 ppm 500 ppm (10-minute maximum peak)	500 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage	Eyes, skin, respiratory system, central nervous system, liver, kidneys	Colorless liquid with a sweet, pungent, benzene-like odor. BP: 232°F Fl.P: 40°F UEL: 7.1% LEL: 1.1% Class IB Flammable Liquid
Xylene (m, o & p isomers)	108-38-3, 95-47-6, 106-42-3	TWA 100 ppm (435 mg/m^3) STEL 150 ppm	TWA 100 ppm (435 mg/m^3)	TWA 100 ppm (435 mg/m^3)	900 ppm	Skin absorption, inhalation, ingestion, skin, and/or eye contact	Irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis	Eyes, skin, respiratory system, central nervous system, gastrointestinal tract, blood, liver, kidneys	Colorless liquid with an aromatic odor BP: 282°F, 292°F, 281°F Fl. Pt. 82°F, 90°F, 81°F LEL: 1.1%, 0.9%, 1.1% UEL: 7.0%, 6.7%, 7.0% Classs C Flammable Liquid
Zinc	7440-66-6	TWA 10 mg/m3 (Inhalable fraction)	None established	TWA 10 mg/m3 (for zinc oxide fume)	None established	skin and/or eye contact, inhalation, ingestion	Irritation eyes, skin, respiratory tract; gastrointestinal disturbances	Eyes, skin, respiratory system	Bluish gray solid BP: 1664.6°F Flammable

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 239 10th Avenue, New York, New York

References

U.S. Department of Labor. 1990. OSHA Regulated Hazardous Substances, industrial Exposure and Control Technologies Government Institutes, Inc.
Hawley's Condensed Chemical Dictionary, Sax, N. Van Nostrand and Reinhold Company, 11th Edition, 1987.
Proctor, N.H., J.P. Hughes and M.L. Fischman, 1989. Chemical Hazards of the Workplace. Van Nostrand Reinhold. New York.
Sax, N.I. and R.J. Lewis. 1989. Dangerous Properties of Industrial Materials. 7th Edition. Van Nostrand Reinhold. New York.
Guide to Occupational Exposure Values. 2008. American Conference of Governmental Industrial Hygienists (ACGIH).
NIOSH Pocket Guide to Chemical Hazards. 2005. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health

Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists.
BP – boiling point at 1 atmosphere, °F
C – Ceiling, is a concentration that should not be exceeded during and part of the working exposure.
Ca - considered by NIOSH to be a potential occupational carcinogen
CAS# Chemical Abstracts Service registry number which is unique for each chemical.
Fl. Pt. – Flash point
IDLH - Immediately Dangerous to Life and Health concentrations represent the maximum concentration from which, in the event of respirator failure, one could escape within 30 minutes without a respirator and without experiencing any escape-impairing or irreversible health effects.
LEL – Lower explosive (flammable) limit in air, % by volume (at room temperature)
mg/m^3 – Milligrams of substance per cubic meter of air
NIOSH -National Institute for Occupational Safety and Health.
OSHA – Occupational Safety and Health Administration
PEL - OSHA Permissible Exposure Limit (usually) a time weighted average concentration that must not be exceeded during any 8 hour work shift of a 40 hr work week.
ppm – parts per million
REL – NIOSH Recommended Limit indicated a time weighted average concentration that must not be exceeded during any 10 hour work shift of a 40 hr work week
STEL – Short-term exposure limit
TLV -ACGIH Threshold Limit Values (usually 8 hour time weighted average concentrations).
TWA – 8-hour, time-weighted average
UEL – Upper explosive (flammable) limit in air, % by volume (at room temperature)

Eyes, skin, kidneys, liver, cen

Irritation eyes, skin, respiratory system, CNS

TABLE 2

ACTION LEVELS FOR WORKER BREATHING ZONE

Instrument	Action Level *	Level of Respiratory Protection/Action
PID	0 to <5 ppm (one minute sustained)	Level D *
PID	>5 to <50 ppm (one minute sustained)	Utilize APR (Level C)
PID	>50 to <100 ppm (one minute sustained)	Level B
PID	>100 ppm	Stop work** (ventilate, apply foam)
CGI/H2S Meter	<5 ppm	Level D
CGI/H2S Meter	>5% to <25 ppm	Level B
CGI/H2S Meter	>25 ppm	Stop work**
CGI/CO Meter	>25 ppm	Level B
CGI/CO Meter	>50 ppm	Stop work** (ventilate area)
CGI/O2 Meter	<10% LEL, in excavation 19.5% oxygen – 23.5%	Level D Level D
CGI/O2 Meter	>10% LEL, in excavation <19.5% or >23.5% oxygen	Allow to vent, apply foam** Stop work, Oxygen Deficient or Enriched ATM**
CGI/CO Meter	>25 to <35 ppm (five minutes sustained) >35 ppm	Allow to vent ** (five minutes sustained) Stop work **

Note:

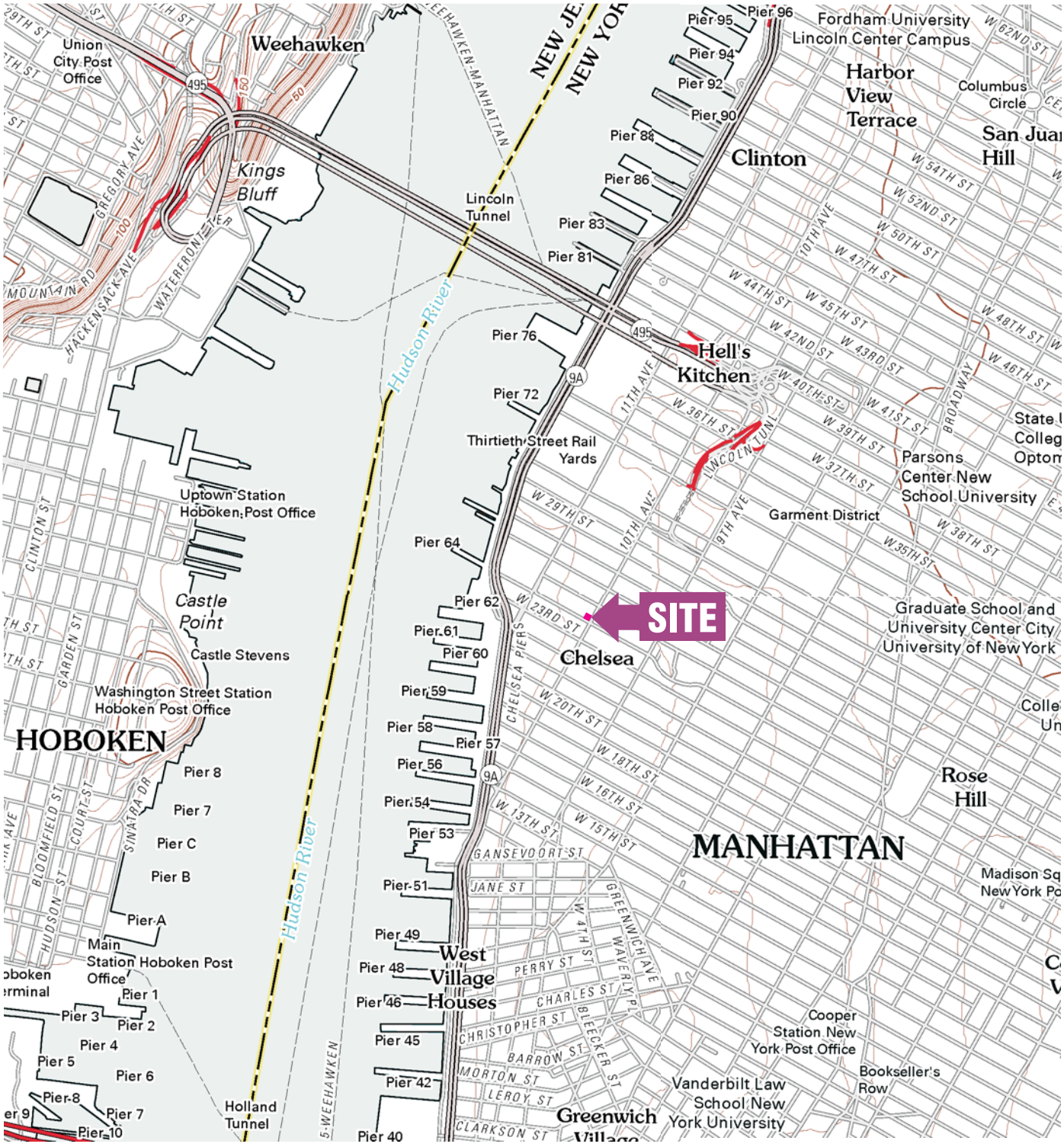
Action levels are based on above background levels.

* Instrument readings will be taken in the breathing zone of the workers, unless otherwise indicated.

** Suspend work in immediate area. Conduct air monitoring periodically to determine when work can continue. Implement mitigative measures.

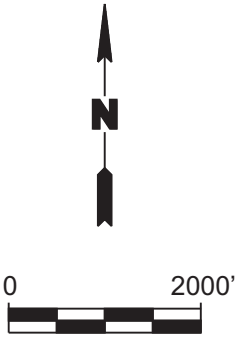
FIGURES

1. Site Location Map
2. Hospital Route Map
3. Health Clinic Route Map



QUADRANGLE LOCATION

SOURCE:
USGS; Brooklyn, NY (2010),
Central Park, NY-NJ (2011),
Weehawken, NJ-NY (2011),
and Jersey City, NJ-NY (2011)
7.5 Minute Topographic Quadrangles



Title:

SITE LOCATION MAP

239 10TH AVENUE PROJECT

Prepared for:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: W.S.	Date: 29JAN14	FIGURE
Prepared by: B.H.C.	Scale: AS SHOWN	1
Project Mgr.: W.S.	Project No.: 2355.0001Y000	
File: 2355.0001Y106.01.CDR		

\2355Y\0001Y\106\2355.0001Y106.01.CDR

New York Doctors Urgent Care
15 W 13th Street
New York, NY 10011
(866) 835-3794

0 1000' 2000'

Driving directions to 65 W 13th St, New York, NY 10011

A **239 10th Ave**
New York, NY 10001

1. Head **northeast** on **10th Ave** toward **W 25th St**
443 ft
2. Turn right at the 2nd cross street onto **W 26th St**
0.5 mi
3. Turn right onto **7th Ave**
0.6 mi
4. Turn left onto **W 14th St**
0.4 mi
5. Turn right at the 2nd cross street onto **5th Ave**
292 ft
6. Take the 1st right onto **W 13th St**
Destination will be on the right
0.2 mi

B **65 W 13th St**
New York, NY 10011

Title:

HOSPITAL ROUTE MAP

239 10TH AVENUE PROJECT

Prepared for:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: W.S.	Date: 29JAN14
Prepared by: B.H.C.	Scale: AS SHOWN
Project Mgr.: W.S.	Project No.: 2355.0001Y000
File: 2355.0001Y106.01.CDR	

FIGURE 2

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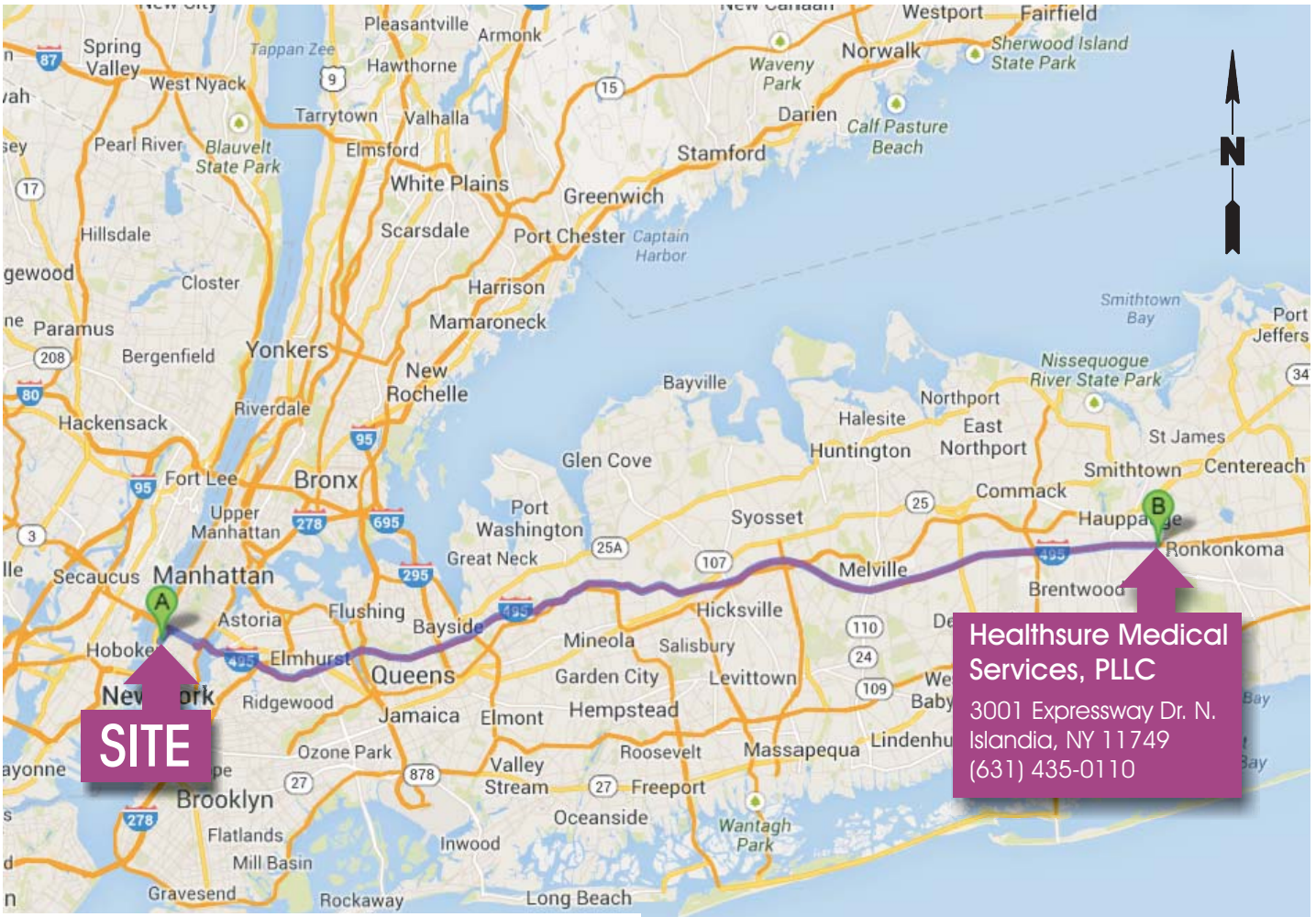


Driving directions to Long Island Expressway North Service Rd

This route has tolls.

239 10th Ave
New York, NY 10001

1. Head **northeast** on **10th Ave** toward **W 25th St**

0.7 mi

2. Turn right onto **W 38th St**

1.4 mi

3. Turn right onto **Tunnel Entrance St**

259 ft

4. Take the ramp onto **I-495 E**
Partial toll road

43.6 mi

5. Take exit **57** toward **NY-454/Commack/ Patchogue**

0.1 mi

6. Merge onto **Express Dr S/Long Island Expressway South Service Rd**

0.6 mi

7. Turn left onto **NY-454 W**

0.1 mi

8. Take the 1st left onto **Long Island Expressway North Service Rd**
Destination will be on the right

0.2 mi

Long Island Expressway North Service Rd

Title:

FIRST CARE & OCCUPATIONAL HEALTH CLINIC ROUTE

239 10TH AVENUE PROJECT

Prepared for:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: W.S.	Date: 29JAN14	FIGURE
Prepared by: B.H.C.	Scale: AS SHOWN	3
Project Mgr.: W.S.	Project No.: 2355.0001Y000	
File: 2355.0001Y106.01.CDR		

\2355Y0001Y106\2355.0001Y106.01.CDR

APPENDICES

A. Job Safety and Health (OSHA) Poster
B. Material Safety Data Sheets (MSDS)
C. Job Safety Analysis
D. Heat and Cold Stress Guidelines
E. Health and Safety Briefing/Tailgate Meeting Form
F. Medical Data Form
G. Generic Community Air Monitoring Plan
H. Accident Report and Investigation Form
I. Acord Automobile Loss Form
J. Near Loss Reporting Form
K. OSHA Log of Occupational Injuries and Illnesses

Job Safety and Health (OSHA) Poster

You Have a Right to a Safe and Healthful Workplace.

IT'S THE LAW!

- ❑ You have the right to notify your employer or OSHA about workplace hazards. You may ask OSHA to keep your name confidential.
- ❑ You have the right to request an OSHA inspection if you believe that there are unsafe and unhealthful conditions in your workplace. You or your representative may participate in the inspection.
- ❑ You can file a complaint with OSHA within 30 days of discrimination by your employer for making safety and health complaints or for exercising your rights under the *OSH Act.*
- ❑ You have a right to see OSHA citations issued to your employer. Your employer must post the citations at or near the place of the alleged violation.
- ❑ Your employer must correct workplace hazards by the date indicated on the citation and must certify that these hazards have been reduced or eliminated.
- ❑ You have the right to copies of your medical records or records of your exposure to toxic and harmful substances or conditions.
- ❑ Your employer must post this notice in your workplace.

The *Occupational Safety and Health Act of 1970 (OSH Act),* P.L. 91-596, assures safe and healthful working conditions for working men and women throughout the Nation. The Occupational Safety and Health Administration, in the U.S. Department of Labor, has the primary responsibility for administering the *OSH Act.* The rights listed here may vary depending on the particular circumstances. To file a complaint, report an emergency, or seek OSHA advice, assistance, or products, visit our website at www.osha.gov or call 1-800-321-OSHA or your nearest OSHA office:

Atlanta (404) 562-2300	Boston (617) 565-9860	Chicago (312) 353-2220	Dallas (214) 767-4731
Denver (303) 844-1600	Kansas City (816) 426-5861	New York (212) 337-2378	Philadelphia (215) 861-4900
San Francisco (415) 975-4310	Seattle (206) 553-5930	Teletypewriter (TTY) 1-877-889-5627	

If you work in a state operating under an OSHA-approved plan, your employer must post the required state equivalent of this poster.

1-800-321-OSHA

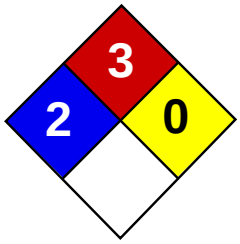
OSHA Occupational Safety and Health Administration

www.osha.gov U.S. Department of Labor

OSHA 3165-09R

APPENDIX B

Material Safety Data Sheets (MSDS)



Material Safety Data Sheet
Benzene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Benzene

Catalog Codes: SLB1564, SLB3055, SLB2881

CAS#: 71-43-2

RTECS: CY1400000

TSCA: TSCA 8(b) inventory: Benzene

CI#: Not available.

Synonym: Benzol; Benzine

Chemical Name: Benzene

Chemical Formula: C6-H6

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Benzene	71-43-2	100

Toxicological Data on Ingredients: Benzene: ORAL (LD50): Acute: 930 mg/kg [Rat]. 4700 mg/kg [Mouse]. DERMAL (LD50): Acute: >9400 mg/kg [Rabbit]. VAPOR (LC50): Acute: 10000 ppm 7 hours [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of eye contact (irritant), of inhalation. Hazardous in case of skin contact (irritant, permeator), of ingestion. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC. MUTAGENIC EFFECTS: Classified POSSIBLE for human. Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE]. The substance is toxic to blood, bone marrow, central nervous system (CNS). The substance may be toxic to liver, Urinary System. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention immediately.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 497.78°C (928°F)

Flash Points: CLOSED CUP: -11.1°C (12°F). (Setaflash)

Flammable Limits: LOWER: 1.2% UPPER: 7.8%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:
Highly flammable in presence of open flames and sparks, of heat. Slightly flammable to flammable in presence of oxidizing materials. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Explosive in presence of oxidizing materials, of acids.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards:
Extremely flammable liquid and vapor. Vapor may cause flash fire. Reacts on contact with iodine heptafluoride gas. Dioxygenyl tetrafluoroborate is as very powferful oxidant. The addition of a small particle to small samples of benzene, at ambient temperature, causes ignition. Contact with sodium peroxide with benzene causes ignition. Benzene ignites in contact with powdered chromic anhydride. Virgorous or incandescent reaction with hydrogen + Raney nickel (above 210 C) and bromine trifluoride.

Special Remarks on Explosion Hazards:
Benzene vapors + chlorine and light causes explosion. Reacts explosively with bromine pentafluoride, chlorine, chlorine trifluoride, diborane, nitric acid, nitryl perchlorate, liquid oxygen, ozone, silver perchlorate. Benzene + pentafluoride and methoxide (from arsenic pentafluoride and potassium methoxide) in trichlorotrifluoroethane causes explosion. Interaction

of nitryl perchlorate with benzene gave a slight explosion and flash. The solution of permanganic acid (or its explosive anhydride, dimaganese heptoxide) produced by interaction of permanganates and sulfuric acid will explode on contact with benzene. Peroxodisulfuric acid is a very powferful oxidant. Uncontrolled contact with benzene may cause explosion. Mixtures of peroxomonsulfuric acid with benzene explodes.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

Storage:
Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.5 STEL: 2.5 (ppm) from ACGIH (TLV) [United States] TWA: 1.6 STEL: 8 (mg/m3) from ACGIH (TLV) [United States] TWA: 0.1 STEL: 1 from NIOSH TWA: 1 STEL: 5 (ppm) from OSHA (PEL) [United States] TWA: 10 (ppm) from OSHA (PEL) [United States] TWA: 3 (ppm) [United Kingdom (UK)] TWA: 1.6 (mg/m3) [United Kingdom (UK)] TWA: 1 (ppm) [Canada] TWA: 3.2 (mg/m3) [Canada] TWA: 0.5 (ppm) [Canada]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor:
Aromatic. Gasoline-like, rather pleasant. (Strong.)

Taste: Not available.

Molecular Weight: 78.11 g/mole

Color: Clear Colorless. Colorless to light yellow.

pH (1% soln/water): Not available.

Boiling Point: 80.1 (176.2°F)

Melting Point: 5.5°C (41.9°F)

Critical Temperature: 288.9°C (552°F)

Specific Gravity: 0.8787 @ 15 C (Water = 1)

Vapor Pressure: 10 kPa (@ 20°C)

Vapor Density: 2.8 (Air = 1)

Volatility: Not available.

Odor Threshold: 4.68 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 2.1

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility:
Miscible in alcohol, chloroform, carbon disulfide oils, carbon tetrachloride, glacial acetic acid, diethyl ether, acetone. Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatibles.

Incompatibility with various substances: Highly reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Benzene vapors + chlorine and light causes explosion. Reacts explosively with bromine pentafluoride, chlorine, chlorine trifluoride, diborane, nitric acid, nitryl perchlorate, liquid oxygen, ozone, silver perchlorate. Benzene + pentafluoride and methoxide (from arsenic pentafluoride and potassium methoxide) in trichlorotrifluoroethane causes explosion. Interaction of nitryl perchlorate with benzene gave a slight explosion and flash. The solution of permanganic acid (or its explosive anhydride, dimaganese heptoxide) produced by interaction of permanganates and sulfuric acid will explode on contact with benzene. Peroxodisulfuric acid is a very powferful oxidant. Uncontrolled contact with benzene may cause explosion. Mixtures of peroxomonsulfuric acid with benzene explodes.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 930 mg/kg [Rat]. Acute dermal toxicity (LD50): >9400 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 10000 7 hours [Rat].

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC. MUTAGENIC EFFECTS: Classified POSSIBLE for human. Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE]. Causes damage to the following organs: blood, bone marrow, central nervous system (CNS). May cause damage to the following organs: liver, Urinary System.

Other Toxic Effects on Humans:
Very hazardous in case of inhalation. Hazardous in case of skin contact (irritant, permeator), of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects (female fertility, Embryotoxic and/or foetotoxic in animal) and birth defects. May affect genetic material (mutagenic). May cause cancer (tumorigenic, leukemia)) Human: passes the placental barrier, detected in maternal milk.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes skin irritation. It can be absorbed through intact skin and affect the liver, blood, metabolism,and urinary system. Eyes: Causes eye irritation. Inhalation: Causes respiratory tract and mucous membrane irritation. Can be absorbed through the lungs. May affect behavior/Central and Peripheral nervous systems (somnolence, muscle weakness, general anesthetic, and other symptoms similar to ingestion), gastrointestinal tract (nausea), blood metabolism, urinary system. Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation including vomiting. May affect behavior/Central and Peripheral nervous systems (convulsions, seizures, tremor, irritability, initial CNS stimulation followed by depression, loss of coordination, dizziness, headache, weakness, pallor, flushing), respiration (breathlessness and chest constriction), cardiovascular system, (shallow/rapid pulse), and blood.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Benzene UNNA: 1114 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Benzene California prop. 65 (no significant risk level): Benzene: 0.007 mg/day (value) California prop. 65: This product contains the following ingredients

for which the State of California has found to cause cancer which would require a warning under the statute: Benzene Connecticut carcinogen reporting list.: Benzene Connecticut hazardous material survey.: Benzene Illinois toxic substances disclosure to employee act: Benzene Illinois chemical safety act: Benzene New York release reporting list: Benzene Rhode Island RTK hazardous substances: Benzene Pennsylvania RTK: Benzene Minnesota: Benzene Michigan critical material: Benzene Massachusetts RTK: Benzene Massachusetts spill list: Benzene New Jersey: Benzene New Jersey spill list: Benzene Louisiana spill reporting: Benzene California Director's list of Hazardous Substances: Benzene TSCA 8(b) inventory: Benzene SARA 313 toxic chemical notification and release reporting: Benzene CERCLA: Hazardous substances.: Benzene: 10 lbs. (4.536 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R11- Highly flammable. R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes. R45- May cause cancer. R62- Possible risk of impaired fertility. S2- Keep out of the reach of children. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection. S46- If swallowed, seek medical advice immediately and show this container or label. S53- Avoid exposure - obtain special instructions before use.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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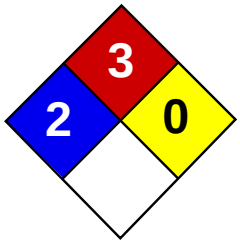

Material Safety Data Sheet
Ethylbenzene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Ethylbenzene

Catalog Codes: SLE2044

CAS#: 100-41-4

RTECS: DA0700000

TSCA: TSCA 8(b) inventory: Ethylbenzene

CI#: Not available.

Synonym: Ethyl Benzene; Ethylbenzol; Phenylethane

Chemical Name: Ethylbenzene

Chemical Formula: C8H10

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Ethylbenzene	100-41-4	100

Toxicological Data on Ingredients: Ethylbenzene: ORAL (LD50): Acute: 3500 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Potential Chronic Health Effects:
Slightly hazardous in case of skin contact (irritant, sensitizer). CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 432°C (809.6°F)

Flash Points:
CLOSED CUP: 15°C (59°F). (Tagliabue.) OPEN CUP: 26.667°C (80°F) (Cleveland) (CHRIS, 2001) CLOSED CUP: 12.8 C (55 F) (Bingham et al, 2001; NIOSH, 2001) CLOSED CUP: 21 C (70 F) (NFPA)

Flammable Limits: LOWER: 0.8% - 1.6%UPPER: 6.7% - 7%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Highly flammable in presence of open flames and sparks, of heat.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of heat.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards:
Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. When heated to decomposition it emits acrid smoke and irritating fumes.

Special Remarks on Explosion Hazards: Vapors may form explosive mixtures in air.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage:
Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in light-resistant containers.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 100 STEL: 125 (ppm) from OSHA (PEL) [United States] TWA: 435 STEL: 545 from OSHA (PEL) [United States] TWA: 435 STEL: 545 (mg/m3) from NIOSH [United States] TWA: 100 STEL: 125 (ppm) from NIOSH [United States] TWA: 100 STEL: 125 (ppm) from ACGIH (TLV) [United States] TWA: 100 STEL: 125 (ppm) [United Kingdom (UK)] TWA: 100 STEL: 125 (ppm) [Belgium] TWA: 100 STEL: 125 (ppm) [Finland] TWA: 50 (ppm) [Norway] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Sweetish. Gasoline-like. Aromatic.

Taste: Not available.

Molecular Weight: 106.16 g/mole

Color: Colorless.

pH (1% soln/water): Not available.

Boiling Point: 136°C (276.8°F)

Melting Point: -94.9 (-138.8°F)

Critical Temperature: 617.15°C (1142.9°F)

Specific Gravity: 0.867 (Water = 1)

Vapor Pressure: 0.9 kPa (@ 20°C)

Vapor Density: 3.66 (Air = 1)

Volatility: 100% (v/v).

Odor Threshold: 140 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 3.1

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether.

Solubility:
Easily soluble in diethyl ether. Very slightly soluble in cold water or practically insoluble in water. Soluble in all proportions in Ethyl alcohol. Soluble in Carbon tetrachloride, Benzene. Insoluble in Ammonia. Slightly soluble in Chloroform. Solubility in Water: 169 mg/l @ 25 deg. C.; 0.014 g/100 ml @ 15 deg. C.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ingnition sources (flames, sparks, static), incompatible materials, light

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Not considered to be corrosive for metals and glass.

Special Remarks on Reactivity:
Can react vigorously with oxidizing materials. Sensitive to light.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Inhalation.

Toxicity to Animals: Acute oral toxicity (LD50): 3500 mg/kg [Rat].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: central nervous system (CNS).

Other Toxic Effects on Humans:
Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals:
Lethal Dose/Conc 50% Kill: LD50 [Rabbit] - Route: Skin; Dose: 17800 ul/kg Lowest Published Lethal Dose/Conc: LDL[Rat] - Route: Inhalation (vapor); Dose: 4000 ppm/4 H

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. May cause cancer based on animals data. IARC evidence for carcinogenicity in animals is sufficient. IARC evidence of carcinogenicity in humans inadequate. May affect genetic material (mutagenic).

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Can cause mild skin irritation. It can be absorbed through intact skin. Eyes: Contact with vapor or liquid can cause severe eye irritation depending on concentration. It may also cause conjunctivitis. At a vapor exposure level of 85 - 200 ppm , it is mildly and transiently irritating to the eyes; 1000 ppm causes further irritation and tearing; 2000 ppm results in immediate and severe irritation and tearing; 5,000 ppm is intolerable (ACGIH, 1991; Clayton and Clayton, 1994). Standard draize test for eye irritation using 500 mg resulted in severe irritation (RTECS) Inhalation: Exposure to high concentrations can cause nasal, mucous membrane and respiratory tract irritation and can also result in chest constriction and, trouble breathing, respiratory failure, and even death. It can also affect behavior/Central Nervous System. The effective dose for CNS depression in experimental animals was 10,000 ppm (ACGIH, 1991). Symptoms of CNS depression include

headache, nausea, weakness, dizziness, vertigo, irritability, fatigue, lightheadedness, sleepiness, tremor, loss of coordination, judgement and conciousness, coma, and death. It can also cause pulmonary edema. Inhalation of 85 ppm can produce fatigue, insomnia, headache, and mild irritation of the respiratory tract (Haley & Berndt, 1987). Ingestion: Do not drink, pipet or siphon by mouth. May cause gastroinestinal/digestive tract irritation with Abdominal pain, nausea, vomiting. Ethylbenzene is a pulmonary aspiration hazard. Pulmonary aspiration of even small amounts of the liquid may cause fatal pneumonitis. It may also affect behavior/central nervous system with

Section 12: Ecological Information

Ecotoxicity:
Ecotoxicity in water (LC50): 14 mg/l 96 hours [Fish (Trout)] (static). 12.1 mg/l 96 hours [Fish (Fathead Minnow)] (flow-through)]. 150 mg/l 96 hours [Fish (Blue Gill/Sunfish)] (static). 275 mg/l 96 hours [Fish (Sheepshead Minnow)]. 42.3 mg/l 96 hours [Fish (Fathead Minnow)](soft water). 87.6mg/l 96 hours [Shrimp].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Ethylbenzene UNNA: 1175 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Ethylbenzene Illinois toxic substances disclosure to employee act: Ethylbenzene Illinois chemical safety act: Ethylbenzene New York release reporting list: Ethylbenzene Rhode Island RTK hazardous substances: Ethylbenzene Pennsylvania RTK: Ethylbenzene Minnesota: Ethylbenzene Massachusetts RTK: Ethylbenzene Massachusetts spill list: Ethylbenzene New Jersey: Ethylbenzene New Jersey spill list: Ethylbenzene Louisiana spill reporting: Ethylbenzene California Director's List of Hazardous Substances: Ethylbenzene TSCA 8(b) inventory: Ethylbenzene TSCA 4(a) proposed test rules: Ethylbenzene TSCA 8(d) H and S data reporting: Ethylbenzene: Effective Date: 6/19/87; Sunset Date: 6/19/97 SARA 313 toxic chemical notification and release reporting: Ethylbenzene

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASSE D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):
R11- Highly flammable. R20- Harmful by inhalation. S16- Keep away from sources of ignition - No smoking. S24/25- Avoid contact with skin and eyes. S29- Do not empty into drains.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References:
-Manufacturer's Material Safety Data Sheet. -Fire Protection Guide to Hazardous Materials, 13th ed., National Fire Protection Association (NFPA) -Registry of Toxic Effects of Chemical Substances (RTECS) -Chemical Hazard Response Information System (CHRIS) -Hazardous Substance Data Bank (HSDB) -New Jersey Hazardous Substance Fact Sheet -Ariel Global View -Reprotext System

Other Special Considerations: Not available.

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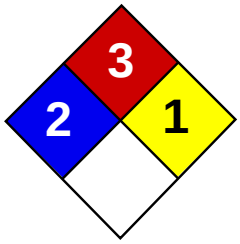


Material Safety Data Sheet
Cumene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Cumene

Catalog Codes: SLC3052

CAS#: 98-82-8

RTECS: GR8575000

TSCA: TSCA 8(b) inventory: Cumene

CI#: Not available.

Synonym: Isopropyl benzene; Cumol; 2-Phenyl propane; (1-Methylethyl)benzene

Chemical Name: Isopropylbenzene

Chemical Formula: C6H5CH(CH3)2

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Cumene	98-82-8	100

Toxicological Data on Ingredients: Cumene: ORAL (LD50): Acute: 1400 mg/kg [Rat]. 12750 mg/kg [Mouse]. DERMAL (LD50): Acute: 12300 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:
Very hazardous in case of skin contact (permeator). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, the nervous system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 424°C (795.2°F)

Flash Points: CLOSED CUP: 36°C (96.8°F). OPEN CUP: 44°C (111.2°F).

Flammable Limits: LOWER: 0.9% UPPER: 6.5%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:
Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 50 CEIL: 75 (ppm) TWA: 245 CEIL: 365 (mg/m3) Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 120.2 g/mole

Color: Clear Colorless.

pH (1% soln/water): Not available.

Boiling Point: 152.4°C (306.3°F)

Melting Point: -96°C (-140.8°F)

Critical Temperature: Not available.

Specific Gravity: 0.862 (Water = 1)

Vapor Pressure: 8 mm of Hg (@ 20°C)

Vapor Density: 4.14 (Air = 1)

Volatility: Not available.

Odor Threshold: 1.2 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 3.7

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
Acute oral toxicity (LD50): 1400 mg/kg [Rat]. Acute dermal toxicity (LD50): 12300 mg/kg [Rabbit].

Chronic Effects on Humans: The substance is toxic to lungs, the nervous system, mucous membranes.

Other Toxic Effects on Humans: Very hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Class 3: Flammable liquid.

Identification: : Isopropylbenzene : UN1918 PG: III

Special Provisions for Transport: Marine Pollutant

Section 15: Other Regulatory Information

Federal and State Regulations:
Pennsylvania RTK: Cumene Massachusetts RTK: Cumene TSCA 8(b) inventory: Cumene SARA 313 toxic chemical notification and release reporting: Cumene CERCLA: Hazardous substances.: Cumene

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):
CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

DSCL (EEC):
R10- Flammable. R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 1

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

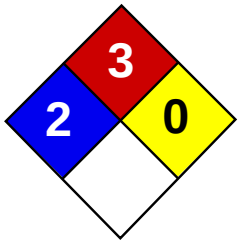
Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/11/2005 11:43 AM

Last Updated: 05/21/2013 12:00 PM



Material Safety Data Sheet
Methyl tert-butyl ether MSDS

Section 1: Chemical Product and Company Identification

Product Name: Methyl tert-butyl ether

Catalog Codes: SLM2152

CAS#: 1634-04-4

RTECS: KN5250000

TSCA: TSCA 8(b) inventory: Methyl tert-butyl ether

CI#: Not available.

Synonym:

Chemical Name: Methyl tert-Butyl Ether

Chemical Formula: C5-H12-O

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Methyl {tert-}butyl ether	1634-04-4	100

Toxicological Data on Ingredients: Methyl tert-butyl ether: ORAL (LD50): Acute: 4000 mg/kg [Rat]. 5960 mg/kg [Mouse]. VAPOR (LC50): Acute: 23576 ppm 4 hour(s) [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Extremely hazardous in case of eye contact (irritant), of ingestion. Very hazardous in case of skin contact (irritant), of inhalation. Hazardous in case of skin contact (permeator). Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:
Extremely hazardous in case of eye contact (irritant), of ingestion. Very hazardous in case of skin contact (irritant), of inhalation. Hazardous in case of skin contact (permeator). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, the nervous system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 224°C (435.2°F)

Flash Points: CLOSED CUP: -28°C (-18.4°F).

Flammable Limits: LOWER: 2.5% UPPER: 15.1%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:
Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Characteristic. (Strong.)

Taste: Not available.

Molecular Weight: 88.15 g/mole

Color: Clear Colorless.

pH (1% soln/water): Not available.

Boiling Point: 55.2°C (131.4°F)

Melting Point: -109°C (-164.2°F)

Critical Temperature: Not available.

Specific Gravity: 0.7405 (Water = 1)

Vapor Pressure: 245 mm of Hg (@ 20°C)

Vapor Density: 3.1 (Air = 1)

Volatility: 100% (v/v).

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol, diethyl ether.

Solubility:

Soluble in methanol, diethyl ether. Partially soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 4000 mg/kg [Rat]. Acute toxicity of the vapor (LC50): 23576 ppm 4 hour(s) [Rat].

Chronic Effects on Humans: The substance is toxic to lungs, the nervous system, mucous membranes.

Other Toxic Effects on Humans:
Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (irritant), of inhalation. Hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Class 3: Flammable liquid.

Identification: : Methyl tert-butyl ether : UN2398 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Pennsylvania RTK: Methyl tert-butyl ether Massachusetts RTK: Methyl tert-butyl ether TSCA 8(b) inventory: Methyl tert-butyl ether SARA 313 toxic chemical notification and release reporting: Methyl tert-butyl ether CERCLA: Hazardous substances.: Methyl tert-butyl ether

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R11- Highly flammable. R38- Irritating to skin. R41- Risk of serious damage to eyes.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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Last Updated: 05/21/2013 12:00 PM

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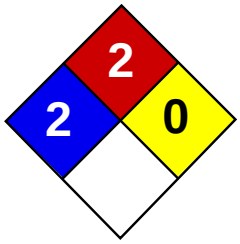

Health	2
Fire	2
Reactivity	0
Personal Protection	E

Material Safety Data Sheet
Naphthalene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Naphthalene

Catalog Codes: SLN1789, SLN2401

CAS#: 91-20-3

RTECS: QJ0525000

TSCA: TSCA 8(b) inventory: Naphthalene

CI#: Not available.

Synonym:

Chemical Name: Not available.

Chemical Formula: C10H8

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Naphthalene	91-20-3	100

Toxicological Data on Ingredients: Naphthalene: ORAL (LD50): Acute: 490 mg/kg [Rat]. 533 mg/kg [Mouse]. 1200 mg/kg [Guinea pig]. DERMAL (LD50): Acute: 20001 mg/kg [Rabbit]. VAPOR (LC50): Acute: 170 ppm 4 hour(s) [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant, permeator). Severe over-exposure can result in death.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Development toxin [POSSIBLE]. The substance is toxic to blood, kidneys, the nervous system, the reproductive system, liver, mucous membranes, gastrointestinal tract, upper respiratory tract, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 567°C (1052.6°F)

Flash Points: CLOSED CUP: 88°C (190.4°F). OPEN CUP: 79°C (174.2°F).

Flammable Limits: LOWER: 0.9% UPPER: 5.9%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable solid. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Flammable solid. Stop leak if without risk. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage:
Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
Israel: TWA: 10 (ppm) TWA: 10 STEL: 15 (ppm) from ACGIH (TLV) [1995] TWA: 52 STEL: 79 (mg/m3) from ACGIH [1995] Australia: STEL: 15 (ppm) Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Crystalline solid.)

Odor: Aromatic.

Taste: Not available.

Molecular Weight: 128.19 g/mole

Color: White.

pH (1% soln/water): Not available.

Boiling Point: 218°C (424.4°F)

Melting Point: 80.2°C (176.4°F)

Critical Temperature: Not available.

Specific Gravity: 1.162 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: 4.4 (Air = 1)

Volatility: Not available.

Odor Threshold: 0.038 ppm

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties:
Partially dispersed in hot water, methanol, n-octanol. Very slightly dispersed in cold water. See solubility in methanol, n-octanol.

Solubility:
Partially soluble in methanol, n-octanol. Very slightly soluble in cold water, hot water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Highly reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: May attack some forms of rubber and plastic

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 490 mg/kg [Rat]. Acute dermal toxicity (LD50): 20001 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 170 ppm 4 hour(s) [Rat].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. DEVELOPMENTAL TOXICITY: Classified Development toxin [POSSIBLE]. The substance is toxic to blood, kidneys, the nervous system, the reproductive system, liver, mucous membranes, gastrointestinal tract, upper respiratory tract, central nervous system (CNS).

Other Toxic Effects on Humans:
Very hazardous in case of ingestion. Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Ecotoxicity in water (LC50): 305.2 ppm 96 hour(s) [Trout].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 4.1: Flammable solid.

Identification: : Naphthalene, refined : UN1334 PG: III

Special Provisions for Transport: Marine Pollutant

Section 15: Other Regulatory Information

Federal and State Regulations:
Rhode Island RTK hazardous substances: Naphthalene Pennsylvania RTK: Naphthalene Florida: Naphthalene Minnesota: Naphthalene Massachusetts RTK: Naphthalene TSCA 8(b) inventory: Naphthalene TSCA 8(a) PAIR: Naphthalene TSCA 8(d) H and S data reporting: Naphthalene: 06/01/87 SARA 313 toxic chemical notification and release reporting: Naphthalene: 1% CERCLA: Hazardous substances.: Naphthalene: 100 lbs. (45.36 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-4: Flammable solid. CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):
R36- Irritating to eyes. R40- Possible risks of irreversible effects. R48/22- Harmful: danger of serious damage to health by prolonged exposure if swallowed. R48/23- Toxic: danger of serious damage to health by prolonged exposure through inhalation. R63- Possible risk of harm to the unborn child.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 2

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/11/2005 01:30 PM

Last Updated: 11/06/2008 12:00 PM

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATHESON TRI-GAS, INC.
150 Allen Road Suite 302
Basking Ridge, New Jersey 07920
Information: 1-800-416-2505

Emergency Contact:
CHEMTREC 1-800-424-9300
Calls Originating Outside the US:
703-527-3887 (Collect Calls Accepted)

SUBSTANCE: BUTYL BENZENE

TRADE NAMES/SYNONYMS:
MTG MSDS 139; BUTYLBENZENE; 1-PHENYLBUTANE; N-BUTYLBENZENE; UN 2709; MAT03530; RTECS CY9070000

CHEMICAL FAMILY: hydrocarbons, aromatic

CREATION DATE: Jan 24 1989
REVISION DATE: Dec 11 2008

2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: BUTYL BENZENE
CAS NUMBER: 104-51-8
PERCENTAGE: 100

3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=2 REACTIVITY=0

EMERGENCY OVERVIEW:
COLOR: colorless
PHYSICAL FORM: liquid
ODOR: odorless
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression
PHYSICAL HAZARDS: Combustible liquid and vapor.

POTENTIAL HEALTH EFFECTS:
INHALATION:
SHORT TERM EXPOSURE: irritation, vomiting, headache, symptoms of drunkenness, coma

LONG TERM EXPOSURE: lung damage
SKIN CONTACT:
SHORT TERM EXPOSURE: irritation, headache, symptoms of drunkenness
LONG TERM EXPOSURE: same as effects reported in short term exposure
EYE CONTACT:
SHORT TERM EXPOSURE: irritation, tearing
LONG TERM EXPOSURE: same as effects reported in short term exposure
INGESTION:
SHORT TERM EXPOSURE: vomiting, headache, symptoms of drunkenness, coma
LONG TERM EXPOSURE: lung damage

4. FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: DO NOT induce vomiting. Never make an unconscious person vomit or drink fluids. If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention.

NOTE TO PHYSICIAN: For inhalation, consider oxygen. For ingestion, consider gastric lavage, catharsis and activated charcoal slurry.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Severe fire hazard. Vapor/air mixtures are explosive above flash point. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back.

EXTINGUISHING MEDIA: regular dry chemical, carbon dioxide, water, regular foam

Large fires: Use regular foam or flood with fine water spray.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny

entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

FLASH POINT: 160 F (71 C) (OC)
LOWER FLAMMABLE LIMIT: 0.8%
UPPER FLAMMABLE LIMIT: 5.8%
AUTOIGNITION: 770 F (410 C)
FLAMMABILITY CLASS (OSHA): IIIA

6. ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:
Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry.

7. HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:
BUTYL BENZENE:
No occupational exposure limits established.

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before

use.
Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.
Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid
COLOR: colorless
ODOR: odorless
MOLECULAR WEIGHT: 134.21
MOLECULAR FORMULA: C10-H14
BOILING POINT: 356 F (180 C)
FREEZING POINT: -116 F (-82 C)
VAPOR PRESSURE: 1 mmHg @ 23 C
VAPOR DENSITY (air=1): 4.6
SPECIFIC GRAVITY (water=1): 0.9
WATER SOLUBILITY: insoluble
PH: Not available
VOLATILITY: Not available
ODOR THRESHOLD: Not available
EVAPORATION RATE: Not available
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available
SOLVENT SOLUBILITY:
Miscible: alcohol, ether, benzene

10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.

INCOMPATIBILITIES: oxidizing materials

HAZARDOUS DECOMPOSITION:
Thermal decomposition products: miscellaneous decomposition products

POLYMERIZATION: Will not polymerize.

11. TOXICOLOGICAL INFORMATION

BUTYL BENZENE:
LOCAL EFFECTS:
Irritant: inhalation, skin, eye
TARGET ORGANS: central nervous system

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:
INVERTEBRATE TOXICITY: 340 ug/L 48 hour(s) EC50 (Immobilization) Water flea (Daphnia magna)

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101:
PROPER SHIPPING NAME: Butyl benzenes
ID NUMBER: UN2709
HAZARD CLASS OR DIVISION: 3
PACKING GROUP: III
LABELING REQUIREMENTS: 3
MARINE POLLUTANT: BUTYL BENZENE

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:
SHIPPING NAME: Butylbenzenes
UN NUMBER: UN2709
CLASS: 3
PACKING GROUP/CATEGORY: III

15. REGULATORY INFORMATION

U.S. REGULATIONS:
CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart B): Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart C): Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370 Subparts B

and C):
ACUTE: Yes
CHRONIC: No
FIRE: Yes
REACTIVE: No
SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29 CFR 1910.119): Not regulated.

STATE REGULATIONS:
California Proposition 65: Not regulated.

CANADIAN REGULATIONS:
WHMIS CLASSIFICATION: Not determined.

NATIONAL INVENTORY STATUS:
U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

CANADA INVENTORY (DSL/NDSL): Not determined.

16. OTHER INFORMATION

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TCI AMERICA

Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	Combustible material; avoid heat and sources of ignition. **The health risks of this compound have not been fully determined.** **Exposure may cause irritation of the skin, eyes, and respiratory system.**	

Section I. Chemical Product and Company Identification

Chemical Name **n-Propylbenzene**

Catalog Number	P0523
Synonym	1-Phenylpropane
Chemical Formula	$CH_3CH_2CH_2C_6H_5$
CAS Number	103-65-1

Supplier
TCI America
9211 N. Harborgate St.
Portland OR
1-800-423-8616

In case of Emergency Call
Chemtrec®
(800) 424-9300 (U.S.)
(703) 527-3887 (International)

Section II. Composition and Information on Ingredients

Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
n-Propylbenzene	103-65-1	Min. 99.0 (GC)	Not available.	Rat LD_{50} (inhalation) 65000ppm/2H Rat LD_{50} (oral) 6040mg/kg

Section III. Hazards Identification

Acute Health Effects
No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

Chronic Health Effects
CARCINOGENIC EFFECTS : Not available.
MUTAGENIC EFFECTS : Not available.
TERATOGENIC EFFECTS : Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section IV. First Aid Measures

Eye Contact
Check for and remove any contact lenses. IMMEDIATELY flush eyes with runing water for at least 15 minutes. keeping eyelids open. COLD water may be used. DO NOT use an eye oitment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper eyelids. Seek medical attention. Treat symptomatically and supportively.

Skin Contact
After contact with skin, wash immediately with plenty of water. Gently and thorough wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.

Inhalation
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

Ingestion
INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

Section V. Fire and Explosion Data

Flammability	Combustible.	Auto-Ignition	Not available.
Flash Points	47.8°C (118°F).	Flammable Limits	Not available.

Combustion Products
These products are toxic carbon oxides (CO, CO_2).

Fire Hazards
No specific information is available regarding the flammability of this compound in the presence of various materials.

Explosion Hazards
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
No additional information is available regarding the risks of explosion.

Continued on Next Page

Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO_2, alcohol foam or water spray. LARGE FIRE: Use alcohol foam, water spray or fog.

Section VI. Accidental Release Measures

Spill Cleanup Instructions	Combustible liquid. Keep away from heat and sources of ignition. Mechanical exhaust required. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information	COMBUSTIBLE. Handle with caution and minimize exposure. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. 
Exposure Limits	Not available.

Section IX. Physical and Chemical Properties

Physical state @ 20°C	Liquid.	Solubility	Very slightly soluble in water. Soluble in alcohol, ether, all proportions in acetone, benzene, and petroleum ether.
Specific Gravity	0.86		
Molecular Weight	120.19	Partition Coefficient	Not available.
Boiling Point	159°C (318.2°F)	Vapor Pressure	Not available.
Melting Point	-99°C (-146.2°F)	Vapor Density	Not available.
Refractive Index	1.4920 @ 20°C	Volatility	Not available.
Critical Temperature	Not available.	Odor	Not available.
Viscosity	Not available.	Taste	Not available.

Section X. Stability and Reactivity Data

Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)
Conditions of Instability	Avoid excessive heat and light.
Incompatibilities	Reactive with strong oxidizing agents.

Section XI. Toxicological Information

RTECS Number	DA8750000
Routes of Exposure	Eye contact. Ingestion. Inhalation.
Toxicity Data	Rat LD_{50} (inhalation) 65000ppm/2H Rat LD_{50} (oral) 6040mg/kg
Chronic Toxic Effects	**CARCINOGENIC EFFECTS** : Not available. **MUTAGENIC EFFECTS** : Not available. **TERATOGENIC EFFECTS** : Not available. **DEVELOPMENTAL TOXICITY**: Not available. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Acute Toxic Effects	No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

Continued on Next Page Emergency phone number (800) 424-9300

Section XII. Ecological Information

Ecotoxicity	Not available.
Environmental Fate	Not available.

Section XIII. Disposal Considerations

Waste Disposal	Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of the substance.

Section XIV. Transport Information

DOT Classification	DOT CLASS 3: Flammable liquid.
PIN Number	UN2364
Proper Shipping Name	n-Propylbenzene
Packing Group (PG)	III
DOT Pictograms	

Section XV. Other Regulatory Information and Pictograms

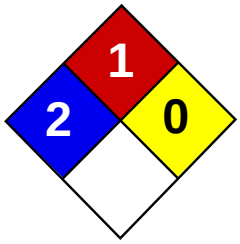
TSCA Chemical Inventory (EPA)	This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	WHMIS CLASS B-3: Combustible liquid with a flash point between 35°C (100°F) and 93.3°C (200°F).
EINECS Number (EEC)	203-132-9
EEC Risk Statements	R10- Flammable. R18- In use, may form flammable/explosive vapor-air mixture.
Japanese Regulatory Data	Not available.

Section XVI. Other Information

Version 1.0
Validated on 10/26/1998.
Printed 3/18/2005.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.



Material Safety Data Sheet
Phenanthrene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Phenanthrene

Catalog Codes: SLP1318

CAS#: 85-01-8

RTECS: SF7175000

TSCA: TSCA 8(b) inventory: Phenanthrene

CI#: Not available.

Synonym:

Chemical Name: Not available.

Chemical Formula: C14H10

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Phenanthrene	85-01-8	100

Toxicological Data on Ingredients: Phenanthrene: ORAL (LD50): Acute: 700 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: OPEN CUP: 171°C (339.8°F).

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing In

case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:
Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 178.22 g/mole

Color: Not available.

pH (1% soln/water): Not available.

Boiling Point: 340°C (644°F)

Melting Point: 101°C (213.8°F)

Critical Temperature: Not available.

Specific Gravity: 1.179 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: 6.14 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 700 mg/kg [Mouse].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Phenanthrene

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):
R36/38- Irritating to eyes and skin. R43- May cause sensitization by skin contact.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 11:16 AM

Last Updated: 11/06/2008 12:00 PM

Material Safety Data Sheet
sec-Butylbenzene, 99+%

MSDS# 73785

Section 1 - Chemical Product and Company Identification

MSDS Name:	sec-Butylbenzene, 99+%
Catalog Numbers:	AC107860000, AC107860050, AC107860500, AC107861000, AC107862500, AC107865000 AC107865000
Synonyms:	2-Phenylbutane; Benzene, (1-methylpropyl)-; (1-Methylpropyl)benzene; Benzene, sec-butyl-
Company Identification:	Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium
Company Identification: (USA)	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:	800-ACROS-01
For information in Europe, call:	+32 14 57 52 11
Emergency Number, Europe:	+32 14 57 52 99
Emergency Number US:	201-796-7100
CHEMTREC Phone Number, US:	800-424-9300
CHEMTREC Phone Number, Europe:	703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#:	135-98-8
Chemical Name:	sec-Butylbenzene
%:	99+
EINECS#:	205-227-0

Hazard Symbols: XI

Risk Phrases: 10 36/37/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable liquid and vapor. May cause central nervous system depression. Causes eye, skin, and respiratory tract irritation. Target Organs: Central nervous system.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion of large amounts may cause CNS depression.

Inhalation: Causes respiratory tract irritation.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion:	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:	Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor.
Extinguishing Media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Use agent most appropriate to extinguish fire. Do NOT use straight streams of water.
Autoignition Temperature:	415 deg C (779.00 deg F)
Flash Point:	45 deg C (113.00 deg F)
Explosion Limits: Lower:	0.80 vol %
Explosion Limits: Upper:	6.90 vol %
NFPA Rating:	health: 2; flammability: 2; instability: 0;

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage

Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
Storage:	Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
sec-Butylbenzene	none listed	none listed	none listed

OSHA Vacated PELs: sec-Butylbenzene: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State:	Liquid
Color:	clear colorless
Odor:	None reported.
pH:	Not available
Vapor Pressure:	4 mm Hg @ 37.7 deg C
Vapor Density:	4.62
Evaporation Rate:	Not available
Viscosity:	Not available
Boiling Point:	173 - 174 deg C @ 760 mm Hg
Freezing/Melting Point:	-75 deg C (-103.00°F)
Decomposition Temperature:	Not available
Solubility in water:	0.015 g/L water
Specific Gravity/Density:	0.8630 g/cm3
Molecular Formula:	C10H14
Molecular Weight:	134.22

Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Ignition sources, excess heat.
Incompatibilities with Other Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide, carbon monoxide, carbon dioxide.
Hazardous Polymerization	Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 135-98-8: CY9100000

LD50/LC50:
RTECS:
CAS# 135-98-8: Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, skin: 100 mg/24H Moderate;
Oral, mouse: LD50 = 8700 mg/kg;
Oral, rat: LD50 = 2240 uL/kg;
Oral, rat: LD50 = 6300 mg/kg;
Skin, rabbit: LD50 = >16 mL/kg;
.

Carcinogenicity: sec-Butylbenzene - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: BUTYL BENZENES
Hazard Class: 3
UN Number: UN2709
Packing Group: III
Canada TDG

Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 10 Flammable.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 9 Keep container in a well-ventilated place.

S 16 Keep away from sources of ignition - No smoking.

S 33 Take precautionary measures against static discharges.

WGK (Water Danger/Protection)

CAS# 135-98-8: 1

Canada

CAS# 135-98-8 is listed on Canada's DSL List

Canadian WHMIS Classifications: B3, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 135-98-8 is not listed on Canada's Ingredient Disclosure List.

US Federal

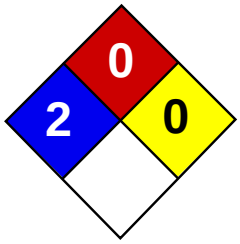
TSCA

CAS# 135-98-8 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #9 Date 7/20/2009



Health	2
Fire	0
Reactivity	0
Personal Protection	G

Material Safety Data Sheet
Tetrachloroethylene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Tetrachloroethylene

Catalog Codes: SLT3220

CAS#: 127-18-4

RTECS: KX3850000

TSCA: TSCA 8(b) inventory: Tetrachloroethylene

CI#: Not available.

Synonym: Perchloroethylene; 1,1,2,2-Tetrachloroethylene; Carbon bichloride; Carbon dichloride; Ankilostin; Didakene; Dilatin PT; Ethene, tetrachloro-; Ethylene tetrachloride; Perawin; Perchlor; Perclene; Perclene D; Percosolvel; Tetrachloroethene; Tetraleno; Tetralex; Tetravec; Tetroguer; Tetropil

Chemical Name: Ethylene, tetrachloro-

Chemical Formula: C2-Cl4

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Tetrachloroethylene	127-18-4	100

Toxicological Data on Ingredients: Tetrachloroethylene: ORAL (LD50): Acute: 2629 mg/kg [Rat]. DERMAL (LD): Acute: >3228 mg/kg [Rabbit]. MIST(LC50): Acute: 34200 mg/m 8 hours [Rat]. VAPOR (LC50): Acute: 5200 ppm 4 hours [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of eye contact (irritant), of ingestion.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH. Classified 2A (Probable for human.) by IARC, 2 (anticipated carcinogen) by NTP. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, peripheral nervous system, respiratory tract, skin, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with skin. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, metals, acids, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protection:
Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 25 (ppm) from OSHA (PEL) [United States] TWA: 25 STEL: 100 (ppm) from ACGIH (TLV) [United States] TWA: 170 (mg/m3) from OSHA (PEL) [United States] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Ethereal.

Taste: Not available.

Molecular Weight: 165.83 g/mole

Color: Clear Colorless.

pH (1% soln/water): Not available.

Boiling Point: 121.3°C (250.3°F)

Melting Point: -22.3°C (-8.1°F)

Critical Temperature: 347.1°C (656.8°F)

Specific Gravity: 1.6227 (Water = 1)

Vapor Pressure: 1.7 kPa (@ 20°C)

Vapor Density: 5.7 (Air = 1)

Volatility: Not available.

Odor Threshold: 5 - 50 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 3.4

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:
Miscible with alcohol, ether, chloroform, benzene, hexane. It dissolves in most of the fixed and volatile oils. Solubility in water: 0.015 g/100 ml @ 25 deg. C It slowly decomposes in water to yield Trichloroacetic and Hydrochloric acids.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, metals, acids, alkalis.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Oxidized by strong oxidizing agents. Incompatible with sodium hydroxide, finely divided or powdered metals such as zinc, aluminum, magnesium, potassium, chemically active metals such as lithium, beryllium , barium. Protect from light.

Special Remarks on Corrosivity: Slowly corrodes aluminum, iron, and zinc.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 2629 mg/kg [Rat]. Acute dermal toxicity (LD50): >3228 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 5200 4 hours [Mouse].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH. Classified 2A (Probable for human.) by IARC, 2 (Some evidence.) by NTP. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS).

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion.

Special Remarks on Toxicity to Animals:
Lowest Publishe Lethal Dose/Conc: LDL [Rabbit] - Route: Oral; Dose: 5000 mg/kg LDL [Dog] - Route: Oral; Dose: 4000 mg/kg LDL [Cat] - Route: Oral; Dose: 4000 mg/kg

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects and birth defects(teratogenic). May affect genetic material (mutagenic). May cause cancer.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes skin irritation with possible dermal blistering or burns. Symtoms may include redness, itching, pain, and possible dermal blistering or burns. It may be absorbed through the skin with possible systemic effects. A single prolonged skin exposure is not likely to result in the material being absorbed in harmful amounts. Eyes: Contact causes transient eye irritation, lacrimation. Vapors cause eye/conjunctival irritation. Symptoms may include redness and pain. Inhalation: The main route to occupational exposure is by inhalation since it is readily absorbed through the lungs. It causes respiratory tract irritation, . It can affect behavior/central nervous system (CNS depressant and anesthesia ranging from slight inebriation to death, vertigo, somnolence, anxiety, headache, excitement, hallucinations, muscle incoordination, dizziness, lightheadness, disorentiation, seizures, enotional instability, stupor, coma). It may cause pulmonary edema Ingestion: It can cause nausea, vomiting, anorexia, diarrhea, bloody stool. It may affect the liver, urinary system (proteinuria, hematuria, renal failure, renal tubular disorder), heart (arrhythmias). It may affect behavior/central nervous system with symptoms similar to that of inhalation. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may result in excessive drying of the skin, and irritation. Ingestion/Inhalation: Chronic exposure can affect the liver(hepatitis,fatty liver degeneration), kidneys, spleen, and heart (irregular heartbeat/arrhythmias, cardiomyopathy, abnormal EEG), brain, behavior/ central nervous system/peripheral nervous system (impaired memory, numbness of extremeties, peripheral neuropathy and other

Section 12: Ecological Information

Ecotoxicity:
Ecotoxicity in water (LC50): 18.4 mg/l 96 hours [Fish (Fatthead Minnow)]. 18 mg/l 48 hours [Daphnia (daphnia)]. 5 mg/l 96 hours [Fish (Rainbow Trout)]. 13 mg/l 96 hours [Fish (Bluegill sunfish)].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: : Tetrachloroethylene UNNA: 1897 PG: III

Special Provisions for Transport: Marine Pollutant

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Tetrachloroethylene California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Tetrachloroethylene Connecticut hazardous material survey.: Tetrachloroethylene Illinois toxic substances disclosure to employee act: Tetrachloroethylene Illinois chemical safety act: Tetrachloroethylene New York release reporting list: Tetrachloroethylene Rhode Island RTK hazardous substances: Tetrachloroethylene Pennsylvania RTK: Tetrachloroethylene Minnesota: Tetrachloroethylene Michigan critical material: Tetrachloroethylene Massachusetts RTK: Tetrachloroethylene Massachusetts spill list: Tetrachloroethylene New Jersey: Tetrachloroethylene New Jersey spill list: Tetrachloroethylene Louisiana spill reporting: Tetrachloroethylene California Director's List of Hazardous Substances: Tetrachloroethylene TSCA 8(b) inventory: Tetrachloroethylene TSCA 8(d) H and S data reporting: Tetrachloroethylene: Effective date: 6/1/87; Sunset date: 6/1/97 SARA 313 toxic chemical notification and release reporting: Tetrachloroethylene CERCLA: Hazardous substances.: Tetrachloroethylene: 100 lbs. (45.36 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R40- Possible risks of irreversible effects. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S23- Do not breathe gas/fumes/vapour/spray S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: g

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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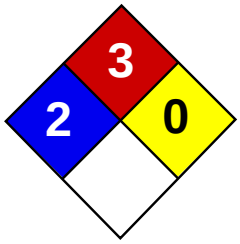
Last Updated: 11/06/2008 12:00 PM



Health	2
Fire	3
Reactivity	0
Personal Protection	H

Material Safety Data Sheet
Toluene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Toluene

Catalog Codes: SLT2857, SLT3277

CAS#: 108-88-3

RTECS: XS5250000

TSCA: TSCA 8(b) inventory: Toluene

CI#: Not available.

Synonym: Toluol, Tolu-Sol; Methylbenzene; Methacide; Phenylmethane; Methylbenzol

Chemical Name: Toluene

Chemical Formula: C6-H5-CH3 or C7-H8

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Toluene	108-88-3	100

Toxicological Data on Ingredients: Toluene: ORAL (LD50): Acute: 636 mg/kg [Rat]. DERMAL (LD50): Acute: 14100 mg/kg [Rabbit]. VAPOR (LC50): Acute: 49000 mg/m 4 hours [Rat]. 440 ppm 24 hours [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, the nervous system, liver, brain, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 480°C (896°F)

Flash Points: CLOSED CUP: 4.4444°C (40°F). (Setaflash) OPEN CUP: 16°C (60.8°F).

Flammable Limits: LOWER: 1.1% UPPER: 7.1%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:
Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards:
Toluene forms explosive reaction with 1,3-dichloro-5,5-dimethyl-2,4-imidazolididione; dinitrogen tetraoxide; concentrated nitric acid, sulfuric acid + nitric acid; N2O4; AgClO4; BrF3; Uranium hexafluoride; sulfur dichloride. Also forms an explosive mixture with tetranitromethane.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Toxic flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage:
Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 200 STEL: 500 CEIL: 300 (ppm) from OSHA (PEL) [United States] TWA: 50 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 100 STEL: 150 from NIOSH [United States] TWA: 375 STEL: 560 (mg/m3) from NIOSH [United States] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Sweet, pungent, Benzene-like.

Taste: Not available.

Molecular Weight: 92.14 g/mole

Color: Colorless.

pH (1% soln/water): Not applicable.

Boiling Point: 110.6°C (231.1°F)

Melting Point: -95°C (-139°F)

Critical Temperature: 318.6°C (605.5°F)

Specific Gravity: 0.8636 (Water = 1)

Vapor Pressure: 3.8 kPa (@ 25°C)

Vapor Density: 3.1 (Air = 1)

Volatility: Not available.

Odor Threshold: 1.6 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 2.7

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility:
Soluble in diethyl ether, acetone. Practically insoluble in cold water. Soluble in ethanol, benzene, chloroform, glacial acetic acid, carbon disulfide. Solubility in water: 0.561 g/l @ 25 deg. C.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources (flames, sparks, static), incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Incompatible with strong oxidizers, silver perchlorate, sodium difluoride, Tetranitromethane, Uranium Hexafluoride. Frozen Bromine Trifluoride reacts violently with Toluene at -80 deg. C. Reacts chemically with nitrogen oxides, or halogens to form nitrotoluene, nitrobenzene, and nitrophenol and halogenated products, respectively.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 636 mg/kg [Rat]. Acute dermal toxicity (LD50): 14100 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 440 24 hours [Mouse].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: blood, kidneys, the nervous system, liver, brain, central nervous system (CNS).

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals:
Lowest Published Lethal Dose: LDL [Human] - Route: Oral; Dose: 50 mg/kg LCL [Rabbit] - Route: Inhalation; Dose: 55000 ppm/40min

Special Remarks on Chronic Effects on Humans:
Detected in maternal milk in human. Passes through the placental barrier in human. Embryotoxic and/or foetotoxic in animal. May cause adverse reproductive effects and birth defects (teratogenic). May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Causes mild to moderate skin irritation. It can be absorbed to some extent through the skin. Eyes: Cauess mild to moderate eye irritation with a burning sensation. Splash contact with eyes also causes conjunctivitis, blepharospasm, corneal edema, corneal abraisons. This usually resolves in 2 days. Inhalation: Inhalation of vapor may cause respiratory tract irritation causing coughing and wheezing, and nasal discharge. Inhalation of high concentrations may affect behavior and cause central nervous system effects characterized by nausea, headache, dizziness, tremors, restlessness, lightheadedness, exhilaration, memory loss, insomnia, impaired reaction time, drowsiness, ataxia, hallucinations, somnolence, muscle contraction or spasticity, unconsciousness and coma. Inhalation of high concentration of vapor may also affect the cardiovascular system (rapid heart beat, heart palpitations, increased or decreased blood pressure, dysrhythmia,), respiration (acute pulmonary edema, respiratory depression, apnea, asphyxia), cause vision disturbances and dilated pupils, and cause loss of appetite. Ingestion: Aspiration hazard. Aspiration of Toluene into the lungs may cause chemical pneumonitis. May cause irritation of the digestive tract with nausea, vomiting, pain. May have effects similar to that of acute inhalation. Chronic Potential Health Effects: Inhalation and Ingestion: Prolonged or repeated exposure via inhalation may cause central nervous system and cardiovascular symptoms similar to that of acute inhalation and ingestion as well liver damage/failure, kidney damage/failure (with hematuria, proteinuria, oliguria, renal tubular acidosis), brain damage, weight loss, blood (pigmented or nucleated red blood cells, changes in white blood cell count), bone marrow changes, electrolyte imbalances (Hypokalemia, Hypophostatemia), severe, muscle weakness and Rhabdomyolysis. Skin: Repeated or prolonged skin contact may cause defatting dermatitis.

Section 12: Ecological Information

Ecotoxicity:
Ecotoxicity in water (LC50): 313 mg/l 48 hours [Daphnia (daphnia)]. 17 mg/l 24 hours [Fish (Blue Gill)]. 13 mg/l 96 hours [Fish (Blue Gill)]. 56 mg/l 24 hours [Fish (Fathead minnow)]. 34 mg/l 96 hours [Fish (Fathead minnow)]. 56.8 ppm any hours [Fish (Goldfish)].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Toluene UNNA: 1294 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Toluene California prop. 65 (no significant risk level): Toluene: 7 mg/day (value) California prop. 65 (acceptable daily intake level): Toluene: 7 mg/day (value) California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Toluene Connecticut hazardous material survey.: Toluene Illinois

toxic substances disclosure to employee act: Toluene Illinois chemical safety act: Toluene New York release reporting list: Toluene Rhode Island RTK hazardous substances: Toluene Pennsylvania RTK: Toluene Florida: Toluene Minnesota: Toluene Michigan critical material: Toluene Massachusetts RTK: Toluene Massachusetts spill list: Toluene New Jersey: Toluene New Jersey spill list: Toluene Louisiana spill reporting: Toluene California Director's List of Hazardous Substances.: Toluene TSCA 8(b) inventory: Toluene TSCA 8(d) H and S data reporting: Toluene: Effective date: 10/04/82; Sunset Date: 10/0/92 SARA 313 toxic chemical notification and release reporting: Toluene CERCLA: Hazardous substances.: Toluene: 1000 lbs. (453.6 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R11- Highly flammable. R20- Harmful by inhalation. S16- Keep away from sources of ignition - No smoking. S25- Avoid contact with eyes. S29- Do not empty into drains. S33- Take precautionary measures against static discharges.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:30 PM

Last Updated: 11/06/2008 12:00 PM

Fisher Scientific
Part of Thermo Fisher Scientific

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product and Company Identification

MSDS Name: 1,2,4-Trimethylbenzene

Catalog Numbers: AC140090000, AC140090010, AC140090025, AC140095000

Synonyms: Pseudocumene.

Company Identification:
Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 95-63-6

Chemical Name: 1,2,4-Trimethylbenzene

%: 98

EINECS#: 202-436-9

Hazard Symbols: XN N

Risk Phrases: 10 20 36/37/38 51/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable liquid and vapor. Harmful if inhaled. Causes eye, skin, and respiratory tract irritation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Target Organs: Blood, central nervous system, respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation. Causes redness and pain.

Skin: Causes skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. May be harmful if swallowed. May cause central nervous system depression.

Inhalation: Harmful if inhaled. Causes respiratory tract irritation. May cause drowsiness, unconsciousness, and central nervous system depression.

Chronic: Prolonged or repeated skin contact may cause dermatitis. May cause anemia and other blood cell abnormalities. Prolonged exposure may produce a narcotic effect. Prolonged or repeated exposure may cause nausea, dizziness, and headache.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Possible aspiration hazard. Get medical aid immediately. Call a poison control center.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Possible aspiration hazard. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: 500 deg C (932.00 deg F)

Flash Point: 48 deg C (118.40 deg F)

Explosion Limits: Lower: 0.9 vol %

Explosion Limits: Upper: 6.4 vol %

NFPA Rating: health: 2; flammability: 2; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Keep away from heat, sparks and flame.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
1,2,4-Trimethylbenzene	25 ppm TWA (listed under Trimethyl benzene).	25 ppm TWA; 125 mg/m3 TWA	none listed

OSHA Vacated PELs: 1,2,4-Trimethylbenzene: 25 ppm TWA; 125 mg/m3 TWA (listed under Trimethyl benzene)

Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Color: colorless
Odor: aromatic odor
pH: Not available
Vapor Pressure: 7 mm Hg @ 44.4 deg C
Vapor Density: 4.15 (air=1)
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: 168 deg C @ 760 mmHg (334.40°F)
Freezing/Melting Point: -44 deg C (-47.20°F)
Decomposition Temperature: Not available
Solubility in water: Insoluble
Specific Gravity/Density: 0.880 g/cm3
Molecular Formula: C9H12
Molecular Weight: 120.19

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, excess heat.
Incompatibilities with Other Materials Strong oxidizing agents.
Hazardous Decomposition Products Carbon monoxide, carbon dioxide.
Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 95-63-6: DC3325000

LD50/LC50: RTECS:
CAS# 95-63-6: Inhalation, rat: LC50 = 18000 mg/m3/4H;
Oral, mouse: LD50 = 6900 mg/kg;
Oral, rat: LD50 = 5 gm/kg;
.

Carcinogenicity: 1,2,4-Trimethylbenzene - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: LC50 = 77.2 mg/L; 96 Hr; Flow-through at 25 C (pH 7.24)

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (1,2,4-Trimethylbenzene)
Hazard Class: 3
UN Number: UN1993
Packing Group: III
Canada TDG

Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN N

Risk Phrases:

R 10 Flammable.

R 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 95-63-6: 3

Canada

CAS# 95-63-6 is listed on Canada's DSL List

Canadian WHMIS Classifications: B3, D1B, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 95-63-6 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

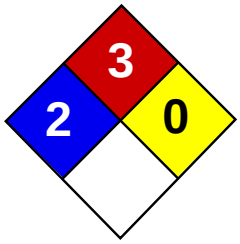
CAS# 95-63-6 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 5/19/1999

Revision #5 Date 8/30/2007

Revisions were made in Sections: 3, 4, 5, 6, 7, 8, 9, 10, 11, 1



Material Safety Data Sheet
Xylenes MSDS

Section 1: Chemical Product and Company Identification

Product Name: Xylenes

Catalog Codes: SLX1075, SLX1129, SLX1042, SLX1096

CAS#: 1330-20-7

RTECS: ZE2100000

TSCA: TSCA 8(b) inventory: Xylenes

CI#: Not available.

Synonym: Xylenes; Dimethylbenzene; xylol; methyltoluene

Chemical Name: Xylenes (o-, m-, p- isomers)

Chemical Formula: C6H4(CH3)2

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Xylenes	1330-20-7	100

Toxicological Data on Ingredients: Xylenes: ORAL (LD50): Acute: 4300 mg/kg [Rat]. 2119 mg/kg [Mouse]. DERMAL (LD50): Acute: >1700 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 464°C (867.2°F)

Flash Points: CLOSED CUP: 24°C (75.2°F). (Tagliabue.) OPEN CUP: 37.8°C (100°F).

Flammable Limits: LOWER: 1% UPPER: 7%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:
Highly flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks, of heat.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Vapors may travel to source of ignition and flash back.

Special Remarks on Explosion Hazards:
Vapors may form explosive mixtures with air. Containers may explode when heated. May polymerize explosively when heated. An attempt to chlorinate xylene with 1,3-Dichloro-5,5-dimethyl-2,4-imidazolidindione (dichlorohydrantoin) caused a violent explosion

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined

areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

Storage:
Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 100 (ppm) [Canada] TWA: 435 (mg/m3) [Canada] TWA: 434 STEL: 651 (mg/m3) from ACGIH (TLV) [United States] TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Sweetish.

Taste: Not available.

Molecular Weight: 106.17 g/mole

Color: Colorless. Clear

pH (1% soln/water): Not available.

Boiling Point: 138.5°C (281.3°F)

Melting Point: -47.4°C (-53.3°F)

Critical Temperature: Not available.

Specific Gravity: 0.864 (Water = 1)

Vapor Pressure: 0.9 kPa (@ 20°C)

Vapor Density: 3.7 (Air = 1)

Volatility: Not available.

Odor Threshold: 1 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 3.1

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:
Insoluble in cold water, hot water. Miscible with absolute alcohol, ether, and many other organic liquids.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatibles

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Store away from acetic acid, nitric acid, chlorine, bromine, and fluorine.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 2119 mg/kg [Mouse]. Acute dermal toxicity (LD50): >1700 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 5000 4 hours [Rat].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals:
Lowest Lethal Dose: LDL [Human] - Route: Oral; Dose: 50 mg/kg LCL [Man] - Route: Oral; Dose: 10000 ppm/6H

Special Remarks on Chronic Effects on Humans:
Detected in maternal milk in human. Passes through the placental barrier in animal. Embryotoxic and/or foetotoxic in animal. May cause adverse reproductive effects (male and femael fertility (spontaneous abortion and fetotoxicity)) and birth defects based animal data.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes skin irritation. Can be absorbed through skin. Eyes: Causes eye irritation. Inhalation: Vapor causes respiratory tract and mucous membrane irritation. May affect central nervous system and behavior (General anesthetic/CNS depressant with effects including headache, weakness, memory loss, irritability, dizziness, giddiness, loss of coordination and judgement, respiratory depression/arrest or difficulty breathing, loss of appetite, nausea, vomiting, shivering, and possible coma and death). May also affects blood, sense organs, liver, and peripheral nerves. Ingestion: May cause gastrointestinal irritation including abdominal pain, vomiting, and nausea. May also affect liver and urinary system/ kidneys. May cause effects similar to those of acute inhalation. Chronic Potential Health Effects: Chronic inhalation may affect the urinary system (kidneys) blood (anemia), bone marrow (hyperplasia of bone marrow) brain/behavior/Central Nervous system. Chronic inhalation may alsocause mucosal bleeding. Chronic ingestion may affect the liver and metabolism (loss of appetite) and may affect urinary system (kidney damage)

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Xylenes UNNA: 1307 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Xylenes Illinois chemical safety act: Xylenes New York acutely hazardous substances: Xylenes Rhode Island RTK hazardous substances: Xylenes Pennsylvania RTK: Xylenes Minnesota: Xylenes Michigan critical material: Xylenes Massachusetts RTK: Xylenes Massachusetts spill list: Xylenes New Jersey: Xylenes New Jersey spill list: Xylenes Louisiana spill reporting: Xylenes California Director's List of Hazardous Substances: Xylenes TSCA 8(b) inventory: Xylenes SARA 302/304/311/312 hazardous chemicals: Xylenes SARA 313 toxic chemical notification and release reporting: Xylenes CERCLA: Hazardous substances.: Xylenes: 100 lbs. (45.36 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R10- Flammable. R21- Harmful in contact with skin. R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S36/37- Wear suitable protective clothing and gloves. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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Last Updated: 11/06/2008 12:00 PM

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Job Safety Analysis

JOB SAFETY ANALYSIS	Ctrl. No. GEN-001	DATE: 12/5/12	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
Generic	**Construction - Excavation**	**Excavation / Trenching**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Ian Holst	Staff Engineer	Curtis Taylor	Health and Safety Officer
		Michael Ritorto	Project Hydrogeologist

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather or cut resistant
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER
☒ LONG SLEEVED SHIRT	☒ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility long sleeved clothing	
☐ LIFELINE / BODY HARNESS	☒ SAFETY SHOES: Steel-toe boots		
☒ SAFETY GLASSES			

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Jackhammer, Excavator, Hand Tools, Photoionization Detector, safety barrels or cones, caution tape, ladders, shovels, digging bars , power tools (cut off saw)

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: Maintain 10' or greater exclusion zone around excavator while it is in motion.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Pre-Clearance Protocol.	1a. **CONTACT:** Damage to underground utility.	1a. Confirm that (if applicable) "Call Before You Dig" and local utility companies were contacted prior to trenching in order to confirm utility mark outs. Must have a case # before digging.
	1b. **ENERGY SOURCE/CONTACT:** Property damage; Pressurized water mains. Pressurized gas mains. Sewer lines. Underground electric.	1b. Pre-clearing of the trenching location must be conducted to a minimum of 4 vertical feet below the ground surface (8 feet minimum for Critical Zone) using hand tools (shovel and non-metallic dig bar) prior to trenching. Supervisor should be contacted to discuss appropriate pre-clearing depth. Complete subsurface clearance checklist.
	1c. **FALL:** Slip ,Trip or Fall.	1c. Be aware of the conditions when walking, or loading equipment and working. Walk within established pathway avoiding uneven surfaces. Remove potential slip/trip/fall hazards.
2. Set up work zone.	2a. **CONTACT/CAUGHT:** Injury from equipment.	2a. Isolate work area from hazards with cones, barricades, and caution tape. Utilize a flag person when necessary (i.e., third party traffic in area). Install traffic signs in roadways and for detours. Spotters will maintain and enforce exclusion zone.
	2b. **FALL:** Slip ,Trip or Fall.	2b. See 1c.

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[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards, energy source; Energy Source – electricity, pressure, compression/tension.

[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Trenching Activity.	3a. **CONTACT:** Injury due to contact with machine. 3b. **FALL:** Slip ,Trip or Fall. 3c. **EXPOSURE:** Noise, Dust, Concrete- Asphalt, petroleum hydrocarbon vapors.	3a. Spotter(s) required for all heavy equipment operation. No worker shall be allowed inside the exclusion zone or along the trench/excavation area while any equipment is digging. A minimum exclusion zone greater than the length of the equipment boom must be established. Workers only allowed in exclusion zone if the operator is in “Hands Off “mode. Operator will not operate equipment until worker is out of exclusion zone. 3b. Any trench/excavation deeper than 4’ must have a ladder within 25’ of any worker in the excavation. At least 3‘ (rungs) shall be above the top of the excavation. All spoil piles shall be maintained 2’ minimum from edge of excavation. 3c. Air monitoring using a calibrated photoionization detector (PID) will be used to monitor the breathing zone of the work area. If a reading of >5ppm is recorded, the oversight personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings.
4. Setting Trench protections if necessary.	4a. **CAUGHT:** Injury due to contact with failed trench. 4b. **CONTACT/CAUGHT:** Injury due rigging activities and entering exclusion zone during lifting and/or transport of shoring box/material. 4c. **FALL:** Possible injury due to fall into excavation.	4a. To prevent cave-ins and avoid caught by/between, excavations over 5’ in depth shall have engineer approved shoring, sheeting or digging box. Top of protection shall be at least 2’ above top of excavation. 4b. Use only inspected rigging with 2, 3 or 4 lift points; wear cut-resistant gloves. Rigging to be hooked up to factory installed hook up points on equipment. Control load with non-conductive tag lines with workers out of exclusion zone. Don’t stand underneath suspended load; wear steel toed boots and hard hat. 4c. Shoring to be set and sides will be backfilled to avoid fall hazards before workers allowed to enter area. Operator will be in “HANDS OFF” mode before workers enter work area to unhook rigging. An inspected ladder set 3’ above top of shoring will be used to enter and exit shoring. Workers will use three points of contact when using ladder.
5. Secure/Leave Site. **If backfilling, see excavation backfilling and compaction JSA for potential hazards and critical actions.**	5a. **FALL:** Potential Slip ,Trip or Fall hazards.	5a. See 1c. All open excavations must be backfilled or secured prior to departure with steel plates, orange construction fence or temporary chain link fencing.

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JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Construction – Concrete and Asphalt**	**Concrete Form Assembly and Concrete Pouring**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Jimmy Kuruvilla	Project Construction Manager	Maria Drakos	Project Manager
Thalassa Sodre	Staff Assistant Engineer		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather and Nitrile/Latex
☒ HARD HAT	☒ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☒ OTHER: Chaps
☐ LIFELINE / BODY HARNESS	☒ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest, long sleeve shirt	
☐ PERSONAL FALL ARREST SYSTEM	☒ SAFETY SHOES: Steel /composite toe boots		
☒ SAFETY GLASSES			

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE (EZ): Maintain a minimum 10' exclusion zone around equipment and loads while it is in motion.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Set-up work zone.	**1a. CONTACT:** Moving equipment, third party traffic.	1a. Secure work area using barricades and caution tape. Use flagmen to control third party traffic. **Maintain minimum exclusion zone (EZ) of 10'** around equipment and live loads. 1a. When machines are operating, all workers will remain outside of EZ unless operator is in "HANDS OFF" mode.
2. Assembly of concrete form (i.e., plywood, lumber, rebar, etc.).	**2a. CONTACT:** Contacting materials being lowered into work area. Potential for cuts and abrasions and to be contacted by nails while assembling. **2b. EXERTION:** Muscle strain. **2c. EXPOSURE:** Noise, dust, fumes. **2d. CAUGHT:** Pinch points, Caught between, Crushed	2a. Workers will keep fingers and limbs out of the line of fire of tools, equipment and live loads. Workers will use inspected rigging and only attach rigging to manufacturer installed lifting points. Loads will be controlled with non-conductive tag lines from outside the EZ. Wear hard hat. See JSA for applicable cutting tool. 2b. When transporting and working with forms, workers will keep backs straight, knees bent, and keep loads close to their body. Any load more than 50 lbs., will be lifted by two or more workers or a mechanical lifting device. 2c. Workers will wear hearing protection, face shields and chaps when using all power tools. Fuel powered tools will be fueled away from the work zone in a well-ventilated area. Refueling will be done after a minimum cool down period of 2 minutesSee JSA for applicable cutting tool. 2d. Keep hands away from rigging while hooking/unhooking materials; wear leather gloves.
3. Set up concrete trucks and chute.	3a. **CONTACT/CAUGHT:** Potential for truck to contact personnel, fingers to be pinched while setting up hoses. 3b. **OVEREXERTION:** Strain, pulled muscles.	3a. Spotters will guide concrete trucks into position; wheel chocks will be set before work begins when trucks are parked. Workers will stay out of exclusion zone until truck is parked and secured. 3b. All workers will keep back straight and bend their knees when lifting. Two workers will be used when load exceeds 50 lbs.
4. Pour concrete into forms.	4b. **CONTACT:** Wet concrete.	4b. Possible splashing from concrete, portable eye wash stations shall be set up in close proximity for easy access; wear safety glasses. Nitrile or latex gloves shall be worn to eliminate skin contact with concrete.
5. Vibrate to settle and remove air from poured cement.	5a. **ENERGY SOURCE:** Potential for personnel to be exposed to live electricity. 5b. **OVEREXERTION:** Potential muscle strain while vibrating cement, stepping over forms/rebar reinforcements.	5a. Electrical tools shall be inspected for defects prior to being used. Any extension cords shall be heavy duty rated and be free from defects (no exposed wires). All electrical connections shall be connected to GFCI outlets. 5b. Constantly check/observe where you are walking; wear steel toed boots. Keep back straight and knees bent while settling concrete with vibrator.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
6. Cleanup of work area and tools.	6a. **CONTACT/FALL:** Potential slip, trip, and fall on materials and tools left in the work area.	6a. Place additional materials and tools in designated storage areas. Remove any garbage from the work area.

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JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):	
Generic	**Drilling**	**Direct Push Soil Borings / Well Installation**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Jeffrey Wills	Project Hydrogeologist	Maria Drakos	Project Manager
Thalassa Sodre	Staff Assistant Engineer		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION: (as needed) ☒ SAFETY SHOES: Composite-toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing, Long Sleeve Shirt	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Insect Repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Geoprobe or Truck-Mounted Direct Push Drill Rig, Hand Tools, Photoionization Detector and/or Multi-Gas Meter (or equivalent), Macrocore liners, Liner Opening Tool, 42" Cones & Flags

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

Exclusion Zone Policy – All non-essential personnel will maintain a distance of 10' feet from drilling equipment while moving/engaged.

"SHOW ME YOUR HANDS"
Driller and helper should show that hands are clear from controls and moving parts

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization of drilling rig (ensure the Subsurface Clearance Protocol and Drill Rig Checklist are completed)	1a. **CONTACT**: Equipment/property damage.	1a. The drill rig's tower/derrick will be lowered and secured prior to mobilization. 1a. A spotter should be utilized while moving the drill rig. If personnel move into the path of the drill rig, the drill rig will be stopped until the path is again clear. Use a spotter for all required backing operations. 1a. Set-up the work area and position equipment in a manner that eliminates or reduces the need for backing of support trucks and trailers. 1a. When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver visibility. 1a. Inspect the driving path for uneven terrain. Level or avoid if needed. 1a. Drill rig should have a minimum **exclusion zone of 10 feet** for non-essential personnel (i.e., driller helper, geologist) when the rig is moving/ in operation.
	1b. **FALL**: Slip/trip/fall hazards.	1b Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. Do not climb over stored materials/equipment; walk around. Practice good housekeeping. 1b. Use established pathways and walk on stable, secure ground.
2. Raising tower/derrick of drill rig	2a. **CONTACT**: Overhead hazards.	2a. Prior to raising the tower/derrick, the area above the drilling rig will be inspected for wires, tree limbs, piping, or other structures, that could come in contact with the rig's tower and/or drilling rods or tools. 2a. Maintain a safe distance from overhead structures.
	2b. **CONTACT**: Pinch Points when raising the rig and instability of rig	2b. Inspect the equipment prior to use and avoid pinch points. 2b. Lower out riggers on rig to ensure stability prior to raising rig tower/derrick. 2b. If the rig needs to be mounted, be sure to use three points of contact.
3. Advancement of drilling equipment and well installation	3a. **CONTACT**: Flying debris	3a. Be aware of and avoid potential lines of fire and wear required PPE such as eye, ear, and hand protection.

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3. Advancement of drilling equipment and well installation (Continued)	3b. **EXPOSURE**: Noise and dust.	3b. Wet borehole area with sprayer to minimize dust. 3b. Stand upwind and keep body away from rig. 3b. Dust mask should be worn if conditions warrant. 3b. Wear hearing protection when the drill rig is in operation.
	3c. **CAUGHT**: Limb/extremity pinching; abrasion/crushing.	3c. Always wear leather gloves when making connections and using hand tools; wear cut-resistant (i.e., Kevlar) gloves when handling cutting tools. 3c. Inspect the equipment prior to use for potential pinch points. Keep hands away from being between pinch points and use of tools is preferable compared to fingers and hands. 3c. Inspect drill head for worn surface or missing teeth; replace if damaged or blunt. 3c. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 3c. All non-essential personnel should stay away from the immediate work area; position body out of the line-of-fire of equipment. 3c. Drillers and helpers will understand and use the “Show Me Your Hands” Policy. 3c. Spinning rods/casing have an **exclusion zone of 10 feet** while in operation.
	3d. **CONTACT**: Equipment imbalance during advancement of drill equipment.	3d. Drillers will advance the borehole with caution to avoid causing the rig to become imbalanced and/or tip. 3d. The blocking and leveling devices used to secure the rig will be inspected by drillers and Roux personnel regularly to see if shifting has occurred. 3d. In addition, personnel and equipment that are non-essential to the advancement of the borehole will be positioned away from the rig at a distance that is at least as far as the boom is high (**minimum exclusion zone of 10 feet**).
	3e. **EXPOSURE**: Inhalation of contamination/vapors.	3e. Air monitoring using a calibrated photoionization detector (PID) will be used to periodically to monitor the breathing zone of the work area. 3e. If a reading of >5ppm is recorded, the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings and inform the Roux PM of the condition. The Roux PM will then recommend additional precautions in accordance with the site specific health and safety plan.
	3f. **FALL**: Slip/trip/fall hazards.	3f. Contain drill cuttings and drilling water to prevent fall hazards from developing in work area. 3f. See 1b.
	3g. **EXERTION**: Potential for muscle strain/injury while lifting and installing well casings, lifting sand bags, and/or lifting rods.	3g. Keep back straight and bend at the knees. 3g. Utilize team lifting for objects over 50lbs. 3g. Use mechanical lifting device for odd shaped objects.
4. Decontaminate equipment.	4a. **EXPOSURE/CONTACT**: To contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, vapors).	4a. Wear chemical-resistant disposable gloves and safety glasses. 4a. Contain decontamination water so that it does not spill. 4a. Use an absorbent pad to clean spills, if necessary. 4a. See 3b.
	4b. **EXPOSURE:** To chemicals in cleaning solution including ammonia.	4b. See 4a. Review MSDS to ensure appropriate precautions are taken and understood.

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JSA TYPE CATEGORY	WORK TYPE:	WORK ACTIVITY (Description):
Generic	**Gauging and Sampling**	**Gauging and Sampling**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Gina Masciello	Project Scientist	Maria Drakos	Project Manager
Thalassa Sodre	Staff Assistant Engineer		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather, Nitrile and cut resistant
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☒ OTHER: Knee pads, Insect Repellant, sunscreen (as needed)
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Composite-toe or steel toe boots		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

42 inch Safety Cones, Caution Tape, Interface Probe and/or Water Level Meter, 20 lb. Fire Extinguisher, Buckets. Tools as needed: Socket Wrench, Screw Driver, Crow Bar, Mallet, and Wire Brush.

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization to monitoring well(s).	1a. **FALL:** Personal injury from slip/trip/fall due to uneven terrain and/or obstructions.	1a. Inspect pathway and plan for most suitable designated pathway prior to mobilization. 1a. Use established pathways, walk and/or drive on stable, secure, ground and avoid steep hills or uneven terrain.
	1b. **CONTACT:** With traffic/third parties.	1b. Identify potential traffic sources and delineate work area with 42 inch traffic safety cones. Position vehicle to protect against oncoming traffic. Use caution tape to provide a more visible delineation of the work area if necessary. 1b. Wear appropriate PPE including high visibility clothing or reflective vest. 1b. Face traffic, maintain eye contact with oncoming vehicles, and establish a safe exit route.
	1c. **EXPOSURE:** To biological hazards.	1c. Inspect work area for bees and insects. 1c. Use insect/tick repellent as necessary.
2. Open/close well.	2a. **OVEREXERTION:** Muscle strain.	2a. Use proper lifting techniques; keep back straight, lift with legs and bend knees when reaching to open/close well.
	2b. **CAUGHT:** Pinch points associated with removing/replacing manholes and working with hand tools.	2b. Wear leather gloves or cut resistant gloves when working with well cover and hand tools. 2b. Use proper tools (ratchet and pry bar for well cover) and inspect before use. 2b. Do not put fingers under well cover.
	2c. **EXPOSURE:** To potential hazardous vapors.	2c. No open flames/heat sources. 2c. To minimize exposure to vapors allow well to vent after opening it and before sampling activities begin. 2c. Stand up-wind, if possible, to avoid vapors.
3. Gauge well.	3a. **CONTACT:** With contamination (e.g. contaminated groundwater).	3a. Wear chemical-resistant disposable gloves and safety glasses when gauging well. 3a. Insert and remove probe slowly to avoid splashing. 3a. Use an absorbent pad to clean probe.
	3b. **CONTACT:** With traffic.	3b. See 1b.
4. Purge and sample well.	4a. **EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors) and/or sample preservatives.	4a. Open and fill sample jars slowly to avoid splashing and contact with preservatives. 4a. Wear cut-resistant gloves and chemical-resistant disposable gloves when sampling. 4a. Fill sample containers over purge container to avoid spilling water onto the ground. 4a. Use an absorbent pad to clean spills.
Assess [1]JOB STEPS	**Analyze [2]POTENTIAL HAZARDS**	**Act [3]CRITICAL ACTIONS**

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4. Purge and sample well (Continued).	4b. **CONTACT:** Personal injury from cuts, abrasions, or punctures by glassware or sharp objects.	4b. To avoid spills or breakage, place sample ware on even surface. 4b. Do not over tighten caps on glass sample ware. 4b. Wear cut-resistant (i.e., Kevlar) gloves and chemical-resistant disposable gloves when sampling and handling glassware (i.e., VOA vials) or when using cutting tools.
	4c. **EXERTION:** Muscle strain while carrying equipment.	4c. Use proper lifting techniques when handling/moving equipment; bend knees and keep back straight. 4c. Use mechanical assistance or team lifting techniques when equipment is 50lbs or heavier. 4c. Make multiple trips to carry equipment.
	4d. **CONTACT:** With traffic.	4d. See 1b.
5. Management of purge water.	5a. **EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors).	5a. Do not overfill container and pour liquids in such a manner that they do not splash. 5a. Properly dispose of used materials/PPE in appropriate container in designated storage area.
	5b. **EXERTION:** Muscle strain from lifting/carrying and moving containers.	5b. Use proper lifting techniques when lifting / carrying or moving container(s) (see 4c.). 5b. Do not overfill container(s).
6. Decontaminate equipment.	6a. **EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors).	6a. Work on the upwind side, where possible, of decon area. 6a. Wear chemical-resistant disposable gloves and safety glasses. 6a. Use an absorbent pad to clean spills.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-007	DATE: 11/4/2013	☐ NEW ☒ REVISED	PAGE 1 of 1
JSA TYPE CATEGORY **GENERIC**	WORK TYPE	WORK ACTIVITY (Description) **Movement of 55-gallon Drums/Drum Handling**		

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Curtis Taylor	Health and Safety Officer	Maria Drakos	Project Manager
Thalassa Sodre	Staff Assistant Engineer		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Cut-resistant gloves
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER:
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel toed boots		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment: Drum Cart and/or forklift, safety cones, and caution tape

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A 10' exclusion zone will be maintained around forklift.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Secure Work Area, Inspect 55-gal drums for proper condition, labeling, check drum ring and bolts. **See JSA Forklift for potential hazards and critical actions.** **Inspect forklift before operating to ensure it is in good condition and functioning correctly.**	1a. **FALL:** Tripping/falling due to uneven surface terrain. 1b. **EXPOSURE:** Drums could potentially be damaged and contain hazardous material. 1c. **OVEREXERTION:** Potential muscle strain while loosening or tightening bolts.	1a. Inspect walking path for uneven terrain, weather-related hazards (i.e., tree debris, puddles, etc.), and obstructions prior to accessing work area. 1a. Use established pathways and walk on stable, secure ground. 1a. Secure work area and coordinate and communicate the planned work activities with other personnel working in the area. 1a. 1b. When inspecting drums, don nitrile gloves under cut resistant glove. If drum is not properly labeled, do not open and cease all drum transport related activities. Immediately contact project manager and inform him/her of drum situation. 1b. Do not continue drum transport activities until further actions are determined by the project manager. 1b. If the drum is properly labeled, but leaking, improperly sealed, or in poor condition, place drum in an over-pack drum. 1c. Keep back straight and secure grip on drum ratchet.
2. When using a forklift, position drum clamp in between drum ribs. When using a drum dolly, secure fastening hook on top of drum. .	2a. **CAUGHT/CONTACT:** Hazards between drum/forklift clamp or dolly fastener/drum. 2b. **OVEREXERTION/CONTACT:** Hazards associated with balancing drum on drum cart (leaning back and pulling drum with your back).	2a. Position drum clamp between the ribs on the drum to prevent possible slipping. Do not place hands between drum clamp and drum; wear cut resistant gloves. 2b. Do not jerk body. Wear cut-resistant gloves and steel toed boots. 2b. Ensure that drums are not over-filled.
3. Transport drums to designated location and disengage drum clamp.	3a. **EXPOSURE/ CONTACT:** Hazards associated with drum transport; skin contact and vapors. 3b. **CAUGHT:** Pinching hazards associated with maneuvering drums. 3c. **FALL:** Tripping/ falling due to obstructions and uneven terrain.	3a. **Maintain a 10' EZ around forklift.** Ensure drum clamp is secure on drum before beginning to move. 3a. Ensure that drum is sealed and lid is tight before beginning to move. 3b. Do not place fingers between drum clamp and drum; wear cut resistant gloves. 3c. See 2b. 3c. If path is too rough for drum cart, utilize forklift. 3c. Utilize a spotter while operating the forklift.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

JOB SAFETY ANALYSIS	Cntrl. No. GEN-009	DATE: 11/4/2013	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Hand Tools**	**Pre-Clearing activities, including Air Knifing and Soil Vacuuming**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Alyssa Lau	Staff Engineer	Maria Drakos	Project Manager
Thalassa Sodre	Staff Assistant Engineer		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Nitrile and cut resistant
☒ HARD HAT	☒ FACE SHIELD (while air knifing)	☐ SUPPLIED RESPIRATOR	
☐ LIFELINE / BODY HARNESS	☒ HEARING PROTECTION (as needed)	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	☒ OTHER: Dust mask (as needed)
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel or composite toed		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment: Air Knife, Vactor Truck (Vac Truck), Compressor, Hand Tools, Photoionization Detector, Multi-Gas Meter, Traffic Cones, 20 lb. Fire Extinguisher, "Work Area" and/or "Exclusion Zone" Signs

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A 10 foot exclusion zone will be maintained around air knife and/or soil vacuum operations.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Verify pre-clearance protocol.	1a. **CONTACT**: Underground utility damage; property damage; personal injury. See Site Walk Inspection JSA for potential hazards.	1a. Confirm that local utility companies were contacted prior to drilling. 1a. Walk the Site to evaluate utility markings and review maps (**See Site Walk Inspection JSA for critical actions**). 1a. Review pre-clearing checklist form and sub-surface clearance form. Pre-clearing protocol indicates that clearance must be conducted to a minimum of 5 vertical feet below ground surface or 8 vertical feet below ground surface in the critical zone using hand tools.
2. Mobilize/demobilize and establish work area.	2a. **See Mobilization / Demobilization JSA for potential hazards.**	2a. **See Mobilization / Demobilization JSA for critical actions.**
3. Pre-clear with air knife and soil vacuum, and/or clearance with hand tools	3a. **CONTACT**: Flying debris.	3a. **Maintain 10 foot exclusion zone.** Only (air knife/vac truck) operator and designated helper shall remain within exclusion zone while air knife/vac truck is active. Use the required PPE, including (at a minimum), cut resistant gloves, safety glasses with side shields, and long sleeved shirt. 3a. Wear a face shield to protect face from flying debris when using air knife. 3a. Aim air knife tip away from self and others, so to avoid line-of-fire hazards. 3a. Use anti-whip devices on compressor hoses.
	3b. **EXPOSURE/ENERGY SOURCE**: Inhalation/exposure to hazardous vapors; inhalation/exposure to dust; electrocution.	3b. Monitor breathing zone with a calibrated PID and multi-gas meter. If vapors sustain levels > 5 ppm, the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings and inform the Roux Project Manager of the condition. The Roux Project Manager will then recommend additional precautions. 3b. Wear dust masks as needed. 3b. Ensure no open flames/heat sources are present within the work area. 3b. Ensure vac truck is properly grounded prior to use. 3b. Do not use metal dig bar; use fiberglass or equivalent.
	3c. **CONTACT:** Damage to unknown/known utility with air knife.	3c. Avoid contacting utilities directly with the high pressure air stream and using the air knife tip as a physical digging tool. 3c. Keep the air knife tip constantly moving to reduce direct pressure on a potential utility. 3c. Increase the distance between air knife tip and soil/utility. 3c. Continually remove soil slurry from hole with vacuum, which may have an abrasive effect on utility casings.
	3d.**OVEREXERTION**: Poor body positioning when handling equipment and materials.	3d. Use proper body positioning and lifting techniques that minimizes muscle strain; keep back straight, lift with legs, keep

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		load close to body, and never reach with a load.
3. Pre-clearing with air knife and soil vacuum, and/or clearance with hand tools (continued)	3d. **OVEREXERTION**: (continued) Poor body positioning when handling equipment and materials.	3d. Ensure that loads are balanced to reduce the potential for muscle strain. 3d. Two people or a mechanical lifting aid are required when lifting objects over 50 lb. or when the shape makes the object difficult to lift.
	3e. **FALL**: Tripping/falling due to uneven terrain, weather conditions, and materials/equipment stored at the Site.	3e. Inspect walking path for uneven terrain, weather-related hazards (e.g., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 3e. Walk around any stored materials/equipment; do not climb over. Practice good housekeeping. 3e. Use established pathways and walk on stable, secure ground. 3e. Equipment and tools will be stored at the lowest point of potential energy and out of the walkway and immediate work area (i.e., tools should not be propped against walls or nearby equipment or vehicles). 3e. Equipment and tools that are not anticipated to be used will be returned to a storage area that is out of the immediate work area. 3e. Ensure power cords/hoses are grouped when used within the work area. Mark out cords/hoses that cross pathways with traffic cones. 3e. Ensure all Site personnel and equipment stay a minimum of 2 feet from an open hole. Mark out open holes with traffic cones/caution tape, etc. 3e. Pre-cleared location will be finished flush to grade as to prevent a slip/trip hazard.
	3f. **CAUGHT**: Pinch points associated with the equipment and vacuum hose.	3f. Always wear cut-resistant gloves when making connections and using hand tools. 3f. Inspect the equipment prior to use for potential pinch points. 3f. Test all emergency shutdown devices prior to using equipment. 3f. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 3f. **All non-essential personnel shall maintain a 10 foot exclusion zone**; position body out of the line-of-fire of equipment. 3f. **Drillers and helpers will understand and use the "Show Me Your Hands Policy".**
	3g. **EXPOSURE**: Noise from vac truck and/or air compressor.	3g. Wear hearing protection when vac truck and air compressor are in operation. Otherwise, if sound levels exceed 85 dB, don hearing protection.
4. Move drum to staging area using drum cart.	4a. **EXPOSURE/CONTACT**: Contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, soil).	4a. Wear chemically resistant gloves (i.e., Nitrile; worn in addition to cut resistant gloves). 4a. Do not overfill drums. Ensure that the drum lids are attached securely. 4a. Stage all drums in the designated storage area (per Roux Project Manager) and ensure they are labeled.
	4b. **EXERTION**: Muscle strain while maneuvering drums with drum cart/lift gate.	4b. See 3d. Do not overfill drums. Use lift gate on back of truck to load and unload drums or drum cart to transport drums.
	4c. **CAUGHT**: Pinch points associated with handling drum lid.	4c. Ensure that fingers are not placed under the lid of the drum. Wear cut-resistant gloves. Use 15/16" ratchet while sealing drum lid.
5. Decontaminate equipment and tools.	5a. **EXPOSURE/CONTACT**: To contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, vapors).	5a. See 4a. 5a. Contain decontamination water (closed lid) so that it does not spill. 5a. Use an absorbent pad to clean spills, if necessary. 5a. Store all impacted materials/PPE in a designated storage container (per Roux Project Manager) and ensure the container is labeled.
	5b. **EXPOSURE**: To chemicals in cleaning solution.	5b. See 4a.

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JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Site Recon**	**Mobilization/Demobilization**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Jared Lefkowitz	Staff Assistant Scientist	Maria Drakos	Project Manager
Thalassa Sodre	Staff Assistant Engineer		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION (as needed) ☒ SAFETY SHOES: Steel Toe or composite toe	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest of high-visibility clothing; long sleeve shirt; long pants	☐ GLOVES: Leather, nitrile, and cut resistant (as needed) ☐ OTHER

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment:

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A minimumexclusion zone of 10' will be maintained around moving equipment (if necessary)

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilize/demobilize and establish work area	**1a. FALL:** Slip/trips/falls from obstructions, uneven terrain, weather conditions, heavy loads, and/or poor housekeeping.	1a. Use 3 points-of-contact/ensure secure footing when entering and exiting vehicle. 1a. Inspect walking path for uneven terrain, steep hills, obstructions, and/or weather-related hazards (i.e., ice, snow, and puddles) prior to mobilizing equipment. Use established pathways.Walk on stable/secure ground. 1a. Do not climb over stored materials/equipment; walk around. Practice good housekeeping. 1a. Wear boots with adequate treads. 1a. Delineate unsafe areas with 42" cones, caution tape and/or flagging.
	1b. CONTACT: Personal injury and/or property damage caused by being struck by Site traffic or equipment used in Site activities.	1b. Observe and maintain the posted speed limits. 1b. When first arriving onsite, park vehicles in designated parking space and/or out of the way locations. Use parking brake on all vehicles and tire chocks on work trucks and trailers. 1b. Check in with Site Manager/Supervisor to ensure coordination with other Site activities. 1b. Identify potential traffic sources. 1b. Wear PPE including high visibility clothing or reflective vest. 1b. Use a spotter while moving work vehicles; plan ahead to avoid backing when unnecessary. 1b. Maintain a minimum 10' exclusion zone when vehicles are in motion. When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver visibility. 1b. Delineate work area with 42" cones, flags, caution tape, and/or other barriers. 1b. Position "Work Area" signs at Site entrances, if possible, or at either side of work area. 1b. Position largest vehicle to protect against oncoming traffic. 1b. Face traffic, maintain eye contact with oncoming vehicles, use a spotter, and establish a safe exit route.
	1c. CAUGHT: Personal injury from pinch points and being in line-of-fire of vehicle and/or equipment.	1c. Make sure driver has engaged parking brake and placed wheel chocks in a position to prevent movement. Be sure that vehicle is parked in front/down gradient of work area. 1c. Wear leather gloves when handling any tools or equipment. Avoid wearing loose clothing. Wear cut-resistant gloves (Kevlar or similar) when handling sharp objects/cutting tools. 1c. Keep body parts away from line-of-fire of equipment. 1c. Always carry tools by the handles and/or designated carrier. Ensure sharp-edged tools are sheathed/secure. 1c. Remove any loose jewelry. Ensure loose clothing is secure.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
	1d. OVEREXERTION: Muscle strains while lifting/carrying equipment.	1d. Use body positioning and lifting techniques that avoid muscle strain; keep back straight, lift with legs, keep load close to body, and never reach with a load. 1d. Ensure that loads are balanced. Use assistance (mechanical or additional person) to carry equipment that is either awkward to carry or over 50 lbs.
	1e. EXPOSURE: Personal injury from exposure to biological and environmental hazards.	1e. Inspect area to avoid contact with biological hazards (i.e. poisonous plants, stinging insects, ticks, etc.). 1e. Wear long sleeved clothes, apply insect repellant containing DEET, and inspect clothes and skin for ticks during and after work. 1e. Apply sunscreen (SPF 15+) if exposure to sun for 30 minutes or more is expected.
	1f. EXPOSURE: Heat and cold related injuries.	1f. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed. 1f. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed. 1f. Wear clothing appropriate for weather and temperature conditions (e.g., rain jackets, snow pants, multiple layers). 1f. If lightning is observed, wait 30 minutes in a sheltered location (car is acceptable) before resuming work.
	1g. EXPOSURE: Personal injury from noise hazards.	1g. Wear hearing protection if sound levels exceed 85 dBA.

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JOB SAFETY ANALYSIS	Cntrl. No. GEN-012	DATE: 12/31/2012	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY: **GENERIC**	WORK TYPE: **Gauging & Sampling**	WORK ACTIVITY (Description): **Soil Sampling**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Michael Hodess	Staff Environmental Scientist	Curtis Taylor	SHSM
		Mike Ritorto	Project Hydrogeologist

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES ☒ FLAME RESISTANT CLOTHING (as needed)	☐ GOGGLES ☐ FACE SHIELD: ☒ HEARING PROTECTION: (as needed) ☒ SAFETY SHOES: Composite-toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Insect Repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Recommended Equipment; 42" traffic cones, caution tape, trowel

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A minimum 10' exclusion zone will be maintained around moving equipment, if present.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Secure location	1a. **CONTACT:** Personnel and vehicular traffic may enter the work area.	1a. If in an area with foot or vehicle traffic, delineate the work area with 42" traffic cones and/or caution tape to prevent exposure to traffic and inform others of work activity. 1a. Wear reflective vest and/or fluorescent clothing. 1a. Face the direction of any vehicular traffic. Position vehicle to protect worker from traffic. 1a. Communicate work activity with adjacent work areas.
	1b. **FALL:** Tripping/falling due to uneven terrain or entry/exit from excavations.	1b. Inspect pathways and work area for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions. 1b. Use established pathways and walk on stable, secure ground. 1b. Stage equipment and tools will in a convenient, stable, and orderly manner. Store equipment at lowest potential energy. 1b. Roux employees should stay 5 feet from in-progress excavations and trenches. Should entry to an excavation be appropriate (when stabilization is complete), ladders must be employed for steep embankments, excavations, pits, and trenches.
	1c. **EXPOSURE:** Exposure to sun and excessive heat, possibly causing sunburn, heat exhaustion or heat stroke, Exposure to cold temperatures possibly causing cold stress. Skin burn as a result of fire if occurred. Exposure to explosive vapors due to tank farm operations, Biological hazards - ticks, bees/wasps, poison ivy, thorns, insects, etc.	1c. Wear sunscreen with an SPF 15 or greater whenever 30 minutes or more of exposure is expected. 1c. Use a tent to shade the work area from direct sunlight particularly when warm temperatures are also expected. 1c. Be aware of the location of all Site personnel. 1c. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). 1c. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). 1c. Take breaks for rest and water as necessary. Move to an area that is well shaded or an area with air conditioning (i.e., car, site trailer, etc.). Move to an area that is warm. 1c. No open flames/heat sources. 1c. Flame resistant clothing must be worn when specified by Site policy. 1c. Cell phones should be disabled when specified by Site policy. 1c. Pre-treat field clothing with Permethrin prior to site visit to kill/repel ticks and insects. 1c. Wear long sleeved shirts and tuck in (or tape) pant legs into socks or boots to prevent ticks from reaching skin. 1c. Spray insect repellant containing DEET on exposed skin when working in overgrown areas of the Site. 1c. Inspect area to avoid contact with biological hazards. 1c. Wear cut-resistant gloves when handling branches, shrubs, etc. that may lie within the walking path. 1c. Personnel shall examine themselves and co-worker's outer clothing for ticks periodically when onsite. 1c. If skin comes in contact with poison ivy, wash skin thoroughly with soap and water.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
2. Collect Soil Sample	2a. **CONTACT:** Personal injury from pinch points, cuts, and abrasions from sampling equipment tools, and material within soil sample. Personal injury from contact with moving equipment while sampling.	2a. Wear cut-resistant (i.e., Kevlar) gloves under chemical-resistant disposable gloves when handling soil samples and sampling jars. 2a. Where possible, use trowel or equivalent tool to avoid contact with soil. 2a. If sampling from bucket of heavy equipment, ensure all equipment is off and operator utilizes the "show me your hands" policy. 2a. See 1a.
	2b. EXPOSURE: Exposure to contamination (impacted soil) and/or lab preservatives.	2b. Wear chemical-resistant disposable gloves over cut resistant gloves to protect hands when handling samples; use containment material or plastic sheeting to protect surrounding areas. 2b. When collecting soil sample from hand auger, put large zip lock bag over entire auger to prevent spillage of soil on to the ground. 2b. Open sample jars slowly and fill carefully to avoid contact with preservatives.
3. Decontaminate equipment	3a. **EXPOSURE/CONTACT:** Contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated vapors and/or soil).	3a. Wear chemical-resistant disposable gloves and safety glasses. 3a. Use an absorbent pad to clean spills. 3a. Properly dispose of used materials/PPE in provided drums in designated drum storage area.
	3b. **EXPOSURE:** Chemicals in cleaning solution including ammonia.	3b. Wear chemical-resistant disposable gloves and safety glasses. 3b. Work on the upwind side of decon area. 3b. Use an absorbent pad to clean spills. 3b. Properly dispose of used materials/PPE in provided drums in designated drum storage area.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-013	DATE: 12/31/2012	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Gauging and Sampling**	**Soil Vapor Sampling (Permanent Monitoring Points)**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Jeff Wills	Project Hydrogeologist	Curtis Taylor	SHSM
		Mike Ritorto	Project Hydrogeologist

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Cut-resistant & Nitriles
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☒ OTHER: Bug Spray, Sun Screen, Knee Pads or kneeling pad
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel-toe boots		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

9/16" Socket and Wrench, Non-Toxic Clay, Teflon-Lined Tubing, Masterflex Tubing, 3-Way Stopcock, Air Pump with Low Flow, Dry Cal, Enclosure (Bucket), Helium Gas Canister, Summa Canisters and Flow Controllers, MultiRae Gas Meters, CO2/O2 Meters, Helium Detector, Tubing Cutter, 42-inch Safety Cones, Caution Tape or Retractable Cone Bars

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

Exclusion Zone: Maintain a 5-Foot Exclusion Zone for Non-Essential Personnel

ACCESS [1]JOB STEPS	ANALYZE [2]POTENTIAL HAZARDS	ACT [3]CRITICAL ACTIONS
1. Define and secure work area.	1a. **FALL:** Potential tripping hazards.	1a. Ensure work area is secure and inform others (third party) of work activity. 1a. Remove tripping hazards and inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment.
	1b. **CONTACT:** Potential contact with moving vehicles or pedestrians.	1b. If working alongside roads, look both ways before entering roadways, face traffic, and utilize work vehicle to protect employees. 1b. Delineate work area (including vehicles) with traffic safety cones and caution tape or retractable cone bars. 1b. Maintain a 5 foot exclusion zone. 1b. Wear high visibility clothing or reflective safety vest.
	1c. **OVEREXERTION:** Muscle strain while lifting and carrying equipment.	1c. When carrying equipment to/from work area, keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced. Use mechanical assistance/make multiple trips to carry equipment.
2. Remove well cover / close well cover.	2a. **CONTACT/CAUGHT:** Pinch points and scrapes associated with hand tools and well covers.	2a. Keep hands away from pinch points. 2a. Use hand tools to remove and replace well covers. 2a. Wear cut-resistant gloves. 2a. Use knee pads or kneeling mat when repetitive kneeling on rough ground is anticipated.
	2b. **FALL:** Potential tripping hazards associated with installing bolts.	2b. Place security bolts in secure location so not to create tripping hazards. Replace security bolts so that they fit flush with monitoring well covers.
	2c. **OVEREXERTION:** Physical exertion to remove bolts that were over torque or stripped.	2c. Replace any security bolts that show signs of stripping. Do not over tighten. 2c. Use body positioning and bending techniques that minimize muscle strain; keep back straight, bend at the knees. 2c. See 2a.
3. Remove / replace brass caps at the end of the sample tubing.	3a. **CONTACT:** Pinch points associated with hand tools and brass caps.	3a. Use wrench to remove and replace brass caps. 3a. Wear cut-resistant gloves to protect against pinch points and scrapes.
	3b. **EXPOSURE:** Potential pathway for vapors to migrate to land surface.	3b. Replace brass caps immediately upon completion to avoid soil vapors migrating to the surface through sample tubing. 3b. Stand up wind of sample point location.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

ACCESS [1]JOB STEPS	ANALYZE [2]POTENTIAL HAZARDS	ACT [3]CRITICAL ACTIONS
4. Set up soil vapor sampling equipment and calibration of meters.	4a. **FALL:** Potential tripping hazards associated with equipment and tubing. 4b. **CONTACT:** Pinch points associated with handling equipment. 4c. **EXPOSURE:** Inhalation of calibration gas and helium.	4a. Place equipment in one area close to the sampling location. 4a. Keep tubing slack to a minimum and locate the summa canister as close to the sampling location as possible. 4a. Avoid stepping over equipment and tubing. 4b. Do not place fingers/hands under sampling equipment. 4b. Make multiple trips when unloading equipment in work area. 4b. Wear cut-resistant gloves to protect against pinch points while handling sampling equipment. 4c. Review MSDS for each type of calibration gas used before calibrating. 4c. Calibrate meters in a well vented area and keep air flow regulator away from face. 4c. Close valve on canisters after use to avoid inhalation of excess helium or calibration gas. 4c. Stand up wind of bucket during helium tracer gas test.
5. Screen sample tubing with multiple gas and CO_2/O_2 meters.	5a. **FALL:** Potential tripping hazards associated with equipment. 5b. **EXPOSURE:** Inhalation of soil vapor	5a. See 4a 5a. Identify area where equipment is to be stored within the work area (away from main walking path). 5a. Don't leave equipment on the ground. Return equipment to storage area between uses. 5b. See 3b. 5b. Use master flex to connect tubing to meter. 5b. Stand on opposite side of meter vent and upwind soil vapor point during screening activities.
6. Cleaning Work Area.	6a. **FALL:** Potential tripping hazards associated with equipment and tubing. 6b. **CONTACT:** Storing and transport of equipment in car.	6a. See 4a. 6a. See 5a. 6b. Ensure that equipment is placed securely in the vehicle. Do not stack equipment on top of each other. Secure equipment so that it will not slide while being transported. 6b. Wear cut-resistant gloves while handling/loading equipment.

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JOB SAFETY ANALYSIS	Cntrl#: GEN-015	DATE 1/29/14	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):	
GENERIC	**Drilling**	**Well Development**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Amy Hoffman	Staff Geologist	Mike Ritorto	Project Hydrogeologist
		Curtis Taylor	SHSM

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION (as needed) ☒ SAFETY SHOES: Composite-toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Insect repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment as needed: Truck Rig or support truck, Trailer, 42 inch Safety cones and flags, Caution Tape, Interface Probe, Power Source, Submercible Pump, Surge Block/Plunger, 20 lb. Fire Extinguisher, Holding Tanks and/or Buckets, Tools as needed: Socket and Pipe Wrench, Screw Driver, Pry Bar, Ratchet, Vault Key.

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

Maintain a 20 Foot Exclusion Zone During Development Activities

"SHOW ME YOUR HANDS"
Driller and helper should show that hands are clear from controls and moving parts

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization / Demobilization (**Review Mobilization and Demobilization JSA**)	1a. **CONTACT:** Equipment/property damage.	1a. The truck rig's tower/derrick will be lowered and secured prior to mobilization. 1a. Set-up the work area / position equipment in a manner that eliminates or reduces the need for backing of trucks and trailers. 1a. All non-essential personnel should **maintain an exclusion zone of 20 feet**. 1a. Beep horn twice before backing up. 1a. When backing up with an attached trailer use a spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver visibility. Stay away from the line-of-fire. 1a. Inspect the driving path for uneven terrain. Level or avoid if needed.
	1b. **FALL:** Slip/trip/fall hazards.	1b Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. Do not climb over stored materials/equipment; walk around. Store equipment at lowest potential energy.
2. Open/close well.	2a. **OVEREXERTION:** Muscle strain (some wells have large vault covers).	2a. Keep back straight, lift with legs, keep load close to body, and never reach with a load. Ensure that loads are balanced to reduce the potential for muscle strain. Two people are required when lifting objects over 50 lbs or when the shape makes the object difficult to lift.
	2b. **CAUGHT:** Pinch points associated with removing/replacing manholes and working with hand tools.	2b. Wear leather gloves when working with well vault/cover and hand tools. Do not put fingers under well vault/cover. 2b. Use ratchet and pry bar for well cover and inspect before use.
	2c. **EXPOSURE:** Potentially hazardous vapors.	2c. No open flames/heat sources. 2c. Allow well to vent after opening it and before starting development activities to minimize exposure to vapors. Air monitoring must be performed prior to set up and during the well development activities. Work on upwind side of well.
	2d. **CONTACT:** Traffic.	2d. Wear required PPE including high visibility clothing or reflective vest. 2d. Delineate work area with 42" safety cones and/or other barriers. Position vehicle to protect against oncoming traffic. 2d. Face traffic, maintain eye contact with oncoming vehicles, and establish a safe exit route.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Develop well (mechanical surging).	3a. **CAUGHT:** Cut hazards and finger pinch points. 3b. **CONTACT/EXPOSURE:** Contamination (e.g., SPH, contaminated groundwater, vapors). 3c. **OVEREXERTION:** Muscle strain from lifting equipment. 3d. **CONTACT:** Injury while handling wench line/cable, or with active surging equipment	3a See 2b. 3a. Use required PPE including leather/cut-resistant gloves when handling development equipment. Identify finger/hand pinch points. Keep hands away from active surge equipment. 3a. All non-essential personnel should **maintain an exclusion zone of 20 feet**. 3b. See 2c. 3b. Wear Nitrile gloves and safety glasses. Insert and remove surge block/plunger and line/cable slowly to avoid splashing at the surface. 3b. Use an absorbent pad to clean any spills. 3c. See 2a. 3c. Use mechanical device to insert and remove surge block/plunger if greater than 50lb. 3d. If using a drill rig, inspect all wench lines/cables for any kinks or if frayed prior to use. Replace any damaged lines/cables. Review **Drill Rig checklist prior to development activities**. . 3d. See 3a.
4. Purging well (pumping water to holding tanks/drums/buckets).	4a. **CAUGHT:** Pinch points associated with connecting hose to tank. Pinch points associated with handling pump and hoses. 4b. **FALL:** Using side mounted ladder when attaching hose to tank. Slip, trip, fall from lines/hoses 4c. **CONTACT:** Contamination (e.g., SPH, contaminated groundwater). 4d. **EXERTION:** Muscle strain from lifting/carrying equipment. 4e.**FALL:** Spilled purge water.	4a. See 3a. 4a. Ensure that fingers are not placed near coupling when attaching and securing hose(s). Do not place fingers under pump/hoses. Wear leather or cut-resistant gloves when handling pump/hose(s). 4a. Keep hands clear from any line of fire. 4b. Inspect ladder steps make sure steps are not bent/damaged and free of debris/fluid. 4b. Use three points of contact at all times when using ladder. 4b. Utilize anti-whip cords on all compressed hoses. Keep hoses and lines coiled and organized out of designated walking paths around the work zone. 4c. Secure water hose. 4c. Do not overfill tanks, and purge/transfer liquids in such a manner that they do not splash. (See 3b). 4c. Dispose of used materials/PPE in the designated impacted PPE container. 4d. Use lifting techniques to minimize muscle strain when carrying equipment. When possible, use mechanic means to lift equipment. 4d. Use two people to lift any equipment or material that is over 50 lbs. 4e. Clean up any spills using absorbent pads or spill kits.
5. Decontaminate equipment	5a. **CONTACT/EXPOSURE:** Contamination (e.g., SPH, contaminated groundwater, vapors). 5b. **EXPOSURE/CONTACT:** Chemicals in cleaning solution	5a. See 3b. 5b. Decontaminate equipment in well-ventilated area. Wear nitrile gloves to avoid skin contact with cleaning solutions.

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APPENDIX D

Heat and Cold Stress Guidelines

OSHA® QUICK CARD™

Protecting Workers from Heat Stress

Heat Illness

Exposure to heat can cause illness and death. The most serious heat illness is heat stroke. Other heat illnesses, such as heat exhaustion, heat cramps and heat rash, should also be avoided.

There are precautions your employer should take any time temperatures are high and the job involves physical work.

Risk Factors for Heat Illness

- High temperature and humidity, direct sun exposure, no breeze or wind
- Low liquid intake; previous heat illnesses
- Heavy physical labor
- Waterproof clothing
- No recent exposure to hot workplaces

Symptoms of Heat Exhaustion

- Headache, dizziness, or fainting
- Weakness and wet skin
- Irritability or confusion
- Thirst, nausea, or vomiting

Symptoms of Heat Stroke

- May be confused, unable to think clearly, pass out, collapse, or have seizures (fits)
- May stop sweating

To Prevent Heat Illness, Your Employer Should

- Provide training about the hazards leading to heat stress and how to prevent them.
- Provide a lot of cool water to workers close to the work area. At least one pint of water per hour is needed.

For more complete information:

OSHA® Occupational Safety and Health Administration

U.S. Department of Labor

www.osha.gov (800) 321-OSHA

OSHA 3154-08-10R v2

OSHA® QUICK CARD™

- Schedule frequent rest periods with water breaks in shaded or air-conditioned areas.
- Routinely check workers who are at risk of heat stress due to protective clothing and high temperature.
- Consider protective clothing that provides cooling.

How You Can Protect Yourself and Others

- Know signs/symptoms of heat illnesses; monitor yourself; use a buddy system.
- Block out direct sun and other heat sources.
- Drink plenty of fluids. Drink often and BEFORE you are thirsty.
- Avoid beverages containing alcohol or caffeine.
- Wear lightweight, light colored, loose-fitting clothes.

- Be aware that poor physical condition, some health problems (such as high blood pressure or diabetes), pregnancy, colds and flu, and some medications can increase your personal risk. If you are under treatment, ask your healthcare provider.

What to Do When a Worker is Ill from the Heat

- Call a supervisor for help. If the supervisor is not available, call 911.
- Have someone stay with the worker until help arrives.
- Move the worker to a cooler/shaded area.
- Remove outer clothing.
- Fan and mist the worker with water; apply ice (ice bags or ice towels).
- Provide cool drinking water, if able to drink.

IF THE WORKER IS NOT ALERT or seems confused, this may be a heat stroke. CALL 911 IMMEDIATELY and apply ice as soon as possible.

If you have any questions or concerns, call OSHA at 1-800-321-OSHA.

For more complete information:

OSHA® Occupational Safety and Health Administration

U.S. Department of Labor

www.osha.gov (800) 321-OSHA

OSHA Technical Manual

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Directive Number: TED 01-00-015
Effective Date: 1/20/1999

SECTION III: CHAPTER 4

HEAT STRESS

Contents:

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I. INTRODUCTION.

Operations involving high air temperatures, radiant heat sources, high humidity, direct physical contact with hot objects, or strenuous physical activities have a high potential for inducing heat stress in employees engaged in such operations. Such places include: iron and steel foundries, nonferrous foundries, brick-firing and ceramic plants, glass products facilities, rubber products factories, electrical utilities (particularly boiler rooms), bakeries, confectioneries, commercial kitchens, laundries, food canneries, chemical plants, mining sites, smelters, and steam tunnels.

Outdoor operations conducted in hot weather, such as construction, refining, asbestos removal, and hazardous waste site activities, especially those that require workers to wear semipermeable or impermeable protective clothing, are also likely to cause heat stress among exposed workers.

A. CAUSAL FACTORS.

1. Age, weight, degree of physical fitness, degree of acclimatization, metabolism, use of alcohol or drugs, and a variety of medical conditions such as hypertension all affect a person's sensitivity to heat. However, even the type of clothing worn must be considered. Prior heat injury predisposes an individual to additional injury.

2. It is difficult to predict just who will be affected and when, because individual susceptibility varies. In addition, environmental factors include more than the ambient air temperature. Radiant heat, air movement, conduction, and relative humidity all affect an individual's response to heat.

B. DEFINITIONS.

1. The American Conference of Governmental Industrial Hygienists (1992) states that workers should not be permitted to work when their deep body temperature exceeds 38°C (100.4°F).

2. **Heat** is a measure of energy in terms of quantity.

3. A **calorie** is the amount of heat required to raise 1 gram of water 1°C (based on a standard temperature of 16.5 to 17.5°C).

4. **Conduction** is the transfer of heat between materials that contact each other. Heat passes from the warmer material to the cooler material. For example, a worker's skin can transfer heat to a contacting surface if that surface is cooler, and vice versa.

5. **Convection** is the transfer of heat in a moving fluid. Air flowing past the body can cool the body if the air temperature is cool. On the other hand, air that exceeds 35°C (95°F) can increase the heat load on the body.

6. **Evaporative cooling** takes place when sweat evaporates from the skin. High humidity reduces the rate of evaporation and thus reduces the effectiveness of the body's primary cooling mechanism.

7. **Radiation** is the transfer of heat energy through space. A worker whose body temperature is greater than the temperature of the surrounding surfaces radiates heat to these surfaces. Hot surfaces and infrared light sources radiate heat that can increase the body's heat load.

8. **Globe temperature** is the temperature inside a blackened, hollow, thin copper globe.

9. **Metabolic heat** is a by-product of the body's activity.

10. **Natural wet bulb (NWB) temperature** is measured by exposing a wet sensor, such as a wet cotton wick fitted over the bulb of a thermometer, to the effects of evaporation and convection. The term natural refers to the movement of air around the sensor.

11. **Dry bulb (DB) temperature** is measured by a thermal sensor, such as an ordinary mercury-in-glass thermometer, that is shielded from direct radiant energy sources.

II. HEAT DISORDERS AND HEALTH EFFECTS.

A. **HEAT STROKE** occurs when the body's system of temperature regulation fails and body temperature rises to critical levels. This condition is caused by a combination of highly variable factors, and its occurrence is difficult to predict. Heat stroke is a medical emergency. The primary signs and symptoms of heat stroke are confusion; irrational behavior; loss of consciousness; convulsions; a lack of sweating (usually); hot, dry skin; and an abnormally high body temperature, e.g., a rectal temperature of 41°C (105.8°F). If body temperature is too high, it causes death. The elevated metabolic temperatures caused by a combination of work load and environmental heat load, both of which contribute to heat stroke, are also highly variable and difficult to predict.

If a worker shows signs of possible heat stroke, professional medical treatment should be obtained immediately. The worker should be placed in a shady area and the outer clothing should be removed. The worker's skin should be wetted and air movement around the worker should be increased to improve evaporative cooling until professional methods of cooling are initiated and the seriousness of the condition can be assessed. Fluids should be replaced as soon as possible. The medical outcome of an episode of heat stroke depends on the victim's physical fitness and the timing and effectiveness of first aid treatment.

Regardless of the worker's protests, no employee suspected of being ill from heat stroke should be sent home or left unattended unless a physician has specifically approved such an order.

B. **HEAT EXHAUSTION**. The signs and symptoms of heat exhaustion are headache, nausea, vertigo, weakness, thirst, and giddiness. Fortunately, this condition responds readily to prompt treatment. Heat exhaustion should not be dismissed lightly, however, for several reasons. One is that the fainting associated with heat exhaustion can be dangerous because the victim may be operating machinery or controlling an operation that should not be left unattended; moreover, the victim may be injured when he or she faints. Also, the signs and symptoms seen in heat exhaustion are similar to those of heat stroke, a medical emergency.

Workers suffering from heat exhaustion should be removed from the hot environment and given fluid replacement. They should also be encouraged to get adequate rest.

C. **HEAT CRAMPS** are usually caused by performing hard physical labor in a hot environment. These cramps have been attributed to an electrolyte imbalance caused by sweating. It is important to understand that cramps can be caused by both too much and too little salt. Cramps appear to be caused by the lack of water replenishment. Because sweat is a hypotonic solution (±0.3% NaCl), excess salt can build up in the body if the water lost through sweating is not replaced. Thirst cannot be relied on as a guide to the need for water; instead, water must be taken every 15 to 20 minutes in hot environments.

Under extreme conditions, such as working for 6 to 8 hours in heavy protective gear, a loss of sodium may occur. Recent studies have shown that drinking commercially available carbohydrate-electrolyte replacement liquids is effective in minimizing physiological disturbances during recovery.

D. **HEAT COLLAPSE** ("Fainting"). In heat collapse, the brain does not receive enough oxygen because blood pools in the extremities. As a result, the exposed individual may lose consciousness. This reaction is similar to that of heat exhaustion and does not affect the body's heat balance. However, the onset of heat collapse is rapid and unpredictable. To prevent heat collapse, the worker should gradually become acclimatized to the hot environment.

E. **HEAT RASHES** are the most common problem in hot work environments. Prickly heat is manifested as red papules and usually appears in areas where the clothing is restrictive. As sweating increases, these papules give rise to a prickling sensation. Prickly heat occurs in skin that is persistently wetted by unevaporated sweat, and heat rash papules may become infected if they are not treated. In most cases, heat rashes will disappear when the affected individual returns to a cool environment.

F. **HEAT FATIGUE.** A factor that predisposes an individual to heat fatigue is lack of acclimatization. The use of a program of acclimatization and training for work in hot environments is advisable. The signs and symptoms of heat fatigue include impaired performance of skilled sensorimotor, mental, or vigilance jobs. There is no treatment for heat fatigue except to remove the heat stress before a more serious heat-related condition develops.

III. INVESTIGATION GUIDELINES.

These guidelines for evaluating employee heat stress approximate those found in the 1992-1993 ACGIH publication, *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.*

A. EMPLOYER AND EMPLOYEE INTERVIEWS.

1. The inspector will review the OSHA 200 Log and, if possible, the OSHA 101 forms for indications of prior heat stress problems.

2. Following are some questions for employer interviews: What type of action, if any, has the employer taken to prevent heat stress problems? What are the potential sources of heat? What employee complaints have been made?

3. Following are some questions for employee interviews: What heat stress problems have been experienced? What type of action has the employee taken to minimize heat stress? What is the employer's involvement, i.e., does employee training include information on heat stress? (Appendix III:4-1 lists factors to be evaluated when reviewing a heat stress situation, and Appendix III:4-2 contains a follow-up checklist.)

B. **WALKAROUND INSPECTION**. During the walkaround inspection, the investigator will: determine building and operation characteristics; determine whether engineering controls are functioning properly; verify information obtained from the employer and employee interviews; and perform temperature measurements and make other determinations to identify potential sources of heat stress. Investigators may wish to discuss any operations that have the potential to cause heat stress with engineers and other knowledgeable personnel. The walkaround inspection should cover all affected areas. Heat sources, such as furnaces, ovens, and boilers, and relative heat load per employee should be noted.

C. **WORK-LOAD ASSESSMENT**.

1. Under conditions of high temperature and heavy workload, the CSHO should determine the work-load category of each job (Table III:4-1 and Figure III:4-1). Work-load category is determined by averaging metabolic rates for the tasks and then ranking them:

    1. Light work: up to 200 kcal/hour
    2. Medium work: 200-350 kcal/hour
    3. Heavy work: 350-500 kcal/hour

2. *Cool Rest Area:* Where heat conditions in the rest area are different from those in the work area, the metabolic rate (M) should be calculated using a time-weighted average, as follows:

    Equation III: 4-1. Average Metabolic Rate

$$Average_M = \frac{(M_1)(t_1)+(M_2)(t_2)+\ldots+(M_n)(t_n)}{(t_1)+(t_2)+\ldots(t_n)}$$

    where: M = metabolic rate

    t = time in minutes

    In some cases, a videotape is helpful in evaluating work practices and metabolic load.

FIGURE III:4-1. ACTIVITY EXAMPLES

- Light hand work: writing, hand knitting
- Heavy hand work: typewriting
- Heavy work with one arm: hammering in nails (shoemaker, upholsterer)
- Light work with two arms: filing metal, planing wood, raking the garden
- Moderate work with the body: cleaning a floor, beating a carpet
- Heavy work with the body: railroad track laying, digging, barking trees

Sample Calculation: Assembly line work using a heavy hand tool

Walking along	2.0 kcal/min
Intermediate value between heavy work with two arms and light work with the body	3.0 kcal/min
Add for basal metabolism	1.0 kcal/min
Total:	6.0 kcal/min

Source: ACGIH 1992.

TABLE III:4-1. ASSESSMENT OF WORK

Body position and movement	***kcal/min****
Sitting	0.3
Standing	0.6
Walking	2.0-3.0
Walking uphill	add 0.8 for every meter (yard) rise

Type of work	***Average kcal/min***	***Range kcal/min***
Hand work		
Light	0.4	0.2-1.2
Heavy	0.9	
Work: One arm		
Light	1.0	0.7-2.5
Heavy	1.7	
Work: Both arms		
Light	1.5	1.0-3.5
Heavy	2.5	
Work: Whole body		
Light	3.5	2.5-15.0
Moderate	5.0	
Heavy	7.0	
Very heavy	9.0	

* For a "standard" worker of 70 kg body weight (154 lbs) and 1.8m^2 body surface (19.4 ft^2).

Source: ACGIH 1992.

IV. SAMPLING METHODS.

A. **BODY TEMPERATURE MEASUREMENTS.** Although instruments are available to estimate deep body temperature by measuring the temperature in the ear canal or on the skin, these instruments are not sufficiently reliable to use in compliance evaluations.

B. **ENVIRONMENTAL MEASUREMENTS.** Environmental heat measurements should be made at, or as close as possible to, the specific work area where the worker is exposed. When a worker is not continuously exposed in a single hot area but moves between two or more areas having different levels of environmental heat, or when the environmental heat varies substantially at a single hot area, environmental heat exposures should be measured for each area and for each level of environmental heat to which employees are exposed.

C. **WET BULB GLOBE TEMPERATURE INDEX.**

1. Wet Bulb Globe Temperature (WBGT) should be calculated using the appropriate formula in Appendix III:4-2. The

WBGT for continuous all-day or several hour exposures should be averaged over a 60-minute period. Intermittent exposures should be averaged over a 120-minute period. These averages should be calculated using the following formula:

Equation III:4-2. Average Web Bulb Globe Temperature (WBGT)

$$Average_{WBGT} = \frac{(WBGT_1)(t_1)+ (WBGT_2)(t_2)+...+(WBGT_n)(t_n)}{(t_1)+(t_2)+...(t_n)}$$

For indoor and outdoor conditions with no solar load, WBGT is calculated as:

$$WBGT = 0.7NWB + 0.3GT$$

For outdoors with a solar load, WBGT is calculated as

$$WBGT = 0.7NWB + 0.2GT + 0.1DB$$

where: WBGT = Wet Bulb Globe Temperature Index
NWB = Nature Wet-Bulb Temperature
DB = Dry-Bulb Temperature
GT = Globe Temperature

2. The exposure limits in Table III:4-2 are valid for employees wearing light clothing. They must be adjusted for the insulation from clothing that impedes sweat evaporation and other body cooling mechanisms. Use Table III:4-3 to correct Table III:4-2 for various kinds of clothing.

3. Use of Table III:4-2 requires knowledge of the WBGT and approximate workload. Workload can be estimated using the data in Table III:4-1, and sample calculations are presented in Figure III:4-1.

D. **MEASUREMENT**. Portable heat stress meters or monitors are used to measure heat conditions. These instruments can calculate both the indoor and outdoor WBGT index according to established ACGIH Threshold Limit Value equations. With this information and information on the type of work being performed, heat stress meters can determine how long a person can safely work or remain in a particular hot environment. See Appendix III:4-2 for an alternate method of calculation.

TABLE III:4-2. PERMISSIBLE HEAT EXPOSURE THRESHOLD LIMIT VALUE

	---------- Work Load* ----------		
Work/rest regimen	**Light**	**Moderate**	**Heavy**
Continuous work	30.0°C (86°F)	26.7°C (80°F)	25.0°C (77°F)
75% Work, 25% rest, each hour	30.6°C (87°F)	28.0°C (82°F)	25.9°C (78°F)
50% Work, 50% rest, each hour	31.4°C (89°F)	29.4°C (85°F)	27.9°C (82°F)
25% Work, 75% rest, each hour	32.2°C (90°F)	31.1°C (88°F)	30.0°C (86°F)

*Values are in °C and °F, WBGT.

These TLV's are based on the assumption that nearly all acclimatized, fully clothed workers with adequate water and salt intake should be able to function effectively under the given working conditions without exceeding a deep body temperature of 38°C (100.4° F). They are also based on the assumption that the WBGT of the resting place is the same or very close to that of the workplace. Where the WBGT of the work area is different from that of the rest area, a time-weighted average should be used (consult the ACGIH *1992-1993 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices* (1992).

These TLV's apply to physically fit and acclimatized individuals wearing light summer clothing. If heavier clothing that impedes sweat or has a higher insulation value is required, the permissible heat exposure TLV's in Table III:4-2 must be reduced by the corrections shown in Table III:4-3.

Source: ACGIH 1992.

E. **OTHER THERMAL STRESS INDICES.**

1. The Effective Temperature index (ET) combines the temperature, the humidity of the air, and air velocity. This index has been used extensively in the field of comfort ventilation and air-conditioning. ET remains a useful measurement technique in mines and other places where humidity is high and radiant heat is low.

2. The Heat-Stress Index (HSI) was developed by Belding and Hatch in 1965. Although the HSI considers all environmental factors and work rate, it is not completely satisfactory for determining an individual worker's heat stress and is also difficult to use.

TABLE III:4-3. WBGT CORRECTION FACTORS IN °C

Clothing type	Clo* value	WBGT correction
Summer lightweight working clothing	0.6	0
Cotton coveralls	1.0	-2
Winter work clothing	1.4	-4
Water barrier, permeable	1.2	-6

*Clo: Insulation value of clothing. One clo = 5.55 kcal/m^2/hr of heat exchange by radiation and convection for each degree °C difference in temperature between the skin and the adjusted dry bulb temperature.

Note: Deleted from the previous version are trade names and "fully encapsulating suit, gloves, boots and hood" including its clo value of 1.2 and WBGT correction of -10.

Source: ACGIH 1992.

V. **CONTROL.**

Ventilation, air cooling, fans, shielding, and insulation are the five major types of engineering controls used to reduce heat stress in hot work environments. Heat reduction can also be achieved by using power assists and tools that reduce the physical demands placed on a worker.

However, for this approach to be successful, the metabolic effort required for the worker to use or operate these devices must be less than the effort required without them. Another method is to reduce the effort necessary to operate power assists. The worker should be allowed to take frequent rest breaks in a cooler environment.

A. **ACCLIMATIZATION.**

1. The human body can adapt to heat exposure to some extent. This physiological adaptation is called acclimatization. After a period of acclimatization, the same activity will produce fewer cardiovascular demands. The worker will sweat more efficiently (causing better evaporative cooling), and thus will more easily be able to maintain normal body temperatures.

2. A properly designed and applied acclimatization program decreases the risk of heat-related illnesses. Such a program basically involves exposing employees to work in a hot environment for progressively longer periods. NIOSH (1986) says that, for workers who have had previous experience in jobs where heat levels are high enough to produce heat stress, the regimen should be 50% exposure on day one, 60% on day two, 80% on day three, and 100% on day four. For new workers who will be similarly exposed, the regimen should be 20% on day one, with a 20% increase in exposure each additional day.

B. **FLUID REPLACEMENT**. Cool (50°-60°F) water or any cool liquid (except alcoholic beverages) should be made available to workers to encourage them to drink small amounts frequently, e.g., one cup every 20 minutes. Ample supplies of liquids should be placed close to the work area. Although some commercial replacement drinks contain salt, this is not necessary for acclimatized individuals because most people add enough salt to their summer diets.

C. **ENGINEERING CONTROLS.**

1. **General ventilation** is used to dilute hot air with cooler air (generally cooler air that is brought in from the outside). This technique clearly works better in cooler climates than in hot ones. A permanently installed ventilation system usually handles large areas or entire buildings. Portable or local exhaust systems may be more effective or practical in smaller areas.

2. **Air treatment/air cooling** differs from ventilation because it reduces the temperature of the air by removing heat (and sometimes humidity) from the air.

3. **Air conditioning** is a method of air cooling, but it is expensive to install and operate. An alternative to air conditioning is the use of chillers to circulate cool water through heat exchangers over which air from the ventilation system is then passed; chillers are more efficient in cooler climates or in dry climates where

evaporative cooling can be used.

4. **Local air cooling** can be effective in reducing air temperature in specific areas. Two methods have been used successfully in industrial settings. One type, cool rooms, can be used to enclose a specific workplace or to offer a recovery area near hot jobs. The second type is a portable blower with built-in air chiller. The main advantage of a blower, aside from portability, is minimal set-up time.

5. Another way to reduce heat stress is to increase the air flow or **convection** using fans, etc. in the work area (as long as the air temperature is less than the worker's skin temperature). Changes in air speed can help workers stay cooler by increasing both the convective heat exchange (the exchange between the skin surface and the surrounding air) and the rate of evaporation. Because this method does not actually cool the air, any increases in air speed must impact the worker directly to be effective.

   If the dry bulb temperature is higher than 35°C (95°F), the hot air passing over the skin can actually make the worker hotter. When the temperature is more than 35°C and the air is dry, evaporative cooling may be improved by air movement, although this improvement will be offset by the convective heat. When the temperature exceeds 35°C and the relative humidity is 100%, air movement will make the worker hotter. Increases in air speed have no effect on the body temperature of workers wearing vapor-barrier clothing.

6. **Heat conduction** methods include insulating the hot surface that generates the heat and changing the surface itself.

7. Simple engineering controls, such as shields, can be used to reduce radiant **heat,** i.e. heat coming from hot surfaces within the worker's line of sight. Surfaces that exceed 35°C (95°F) are sources of infrared radiation that can add to the worker's heat load. Flat black surfaces absorb heat more than smooth, polished ones. Having cooler surfaces surrounding the worker assists in cooling because the worker's body radiates heat toward them.

   With some sources of radiation, such as heating pipes, it is possible to use both insulation and surface modifications to achieve a substantial reduction in radiant heat. Instead of reducing radiation from the source, shielding can be used to interrupt the path between the source and the worker. Polished surfaces make the best barriers, although special glass or metal mesh surfaces can be used if visibility is a problem.

   Shields should be located so that they do not interfere with air flow, unless they are also being used to reduce convective heating. The reflective surface of the shield should be kept clean to maintain its effectiveness.

D. **ADMINISTRATIVE CONTROLS AND WORK PRACTICES.**

1. Training is the key to good work practices. Unless all employees understand the reasons for using new, or changing old, work practices, the chances of such a program succeeding are greatly reduced.

2. NIOSH (1986) states that a good heat stress training program should include at least the following components:

   - Knowledge of the hazards of heat stress;
   - Recognition of predisposing factors, danger signs, and symptoms;
   - Awareness of first-aid procedures for, and the potential health effects of, heat stroke;
   - Employee responsibilities in avoiding heat stress;
   - Dangers of using drugs, including therapeutic ones, and alcohol in hot work environments;
   - Use of protective clothing and equipment; and
   - Purpose and coverage of environmental and medical surveillance programs and the advantages of worker participation in such programs.

3. Hot jobs should be scheduled for the cooler part of the day, and routine maintenance and repair work in hot areas should be scheduled for the cooler seasons of the year.

E. **WORKER MONITORING PROGRAMS.**

1. Every worker who works in extraordinary conditions that increase the risk of heat stress should be personally monitored. These conditions include wearing semipermeable or impermeable clothing when the temperature exceeds 21°C (69.8°F), working at extreme metabolic loads (greater than 500 kcal/hour), etc.

2. Personal monitoring can be done by checking the heart rate, recovery heart rate, oral temperature, or extent of body water loss.

3. To check the heart rate, count the radial pulse for 30 seconds at the beginning of the rest period. If the heart rate exceeds 110 beats per minute, shorten the next work period by one third and maintain the same rest period.

4. The recovery heart rate can be checked by comparing the pulse rate taken at 30 seconds (P_1) with the pulse rate taken at 2.5 minutes (P_3) after the rest break starts. The two pulse rates can be interpreted using Table III:4-4.

5. Oral temperature can be checked with a clinical thermometer after work but before the employee drinks water. If the oral temperature taken under the tongue exceeds 37.6°C, shorten the next work cycle by one third.

6. Body water loss can be measured by weighing the worker on a scale at the beginning and end of each work day.

The worker's weight loss should not exceed 1.5% of total body weight in a work day. If a weight loss exceeding this amount is observed, fluid intake should increase.

F. **OTHER ADMINISTRATIVE CONTROLS**. The following administrative controls can be used to reduce heat stress:

- Reduce the physical demands of work, e.g., excessive lifting or digging with heavy objects;
- Provide recovery areas, e.g., air-conditioned enclosures and rooms;
- Use shifts, e.g., early morning, cool part of the day, or night work;
- Use intermittent rest periods with water breaks;
- Use relief workers;
- Use worker pacing; and
- Assign extra workers and limit worker occupancy, or the number of workers present, especially in confined or enclosed spaces.

TABLE III:4-4. HEART RATE RECOVERY CRITERIA

Heart rate recovery pattern	P_3	Difference between P_1 and P_3
Satisfactory recovery	<90	--
High recovery (Conditions may require further study)	90	10
No recovery (May indicate too much stress)	90	<10

VI. **PERSONAL PROTECTIVE EQUIPMENT.**

A. **REFLECTIVE CLOTHING**, which can vary from aprons and jackets to suits that completely enclose the worker from neck to feet, can stop the skin from absorbing radiant heat. However, since most reflective clothing does not allow air exchange through the garment, the reduction of radiant heat must more than offset the corresponding loss in evaporative cooling. For this reason, reflective clothing should be worn as loosely as possible. In situations where radiant heat is high, auxiliary cooling systems can be used under the reflective clothing.

B. **AUXILIARY BODY COOLING.**

1. Commercially available **ice vests**, though heavy, may accommodate as many as 72 ice packets, which are usually filled with water. Carbon dioxide (dry ice) can also be used as a coolant. The cooling offered by ice packets lasts only 2 to 4 hours at moderate to heavy heat loads, and frequent replacement is necessary. However, ice vests do not encumber the worker and thus permit maximum mobility. Cooling with ice is also relatively inexpensive.

2. **Wetted clothing** is another simple and inexpensive personal cooling technique. It is effective when reflective or other impermeable protective clothing is worn. The clothing may be wetted terry cloth coveralls or wetted two-piece, whole-body cotton suits. This approach to auxiliary cooling can be quite effective under conditions of high temperature and low humidity, where evaporation from the wetted garment is not restricted.

3. **Water-cooled garments** range from a hood, which cools only the head, to vests and "long johns," which offer partial or complete body cooling. Use of this equipment requires a battery-driven circulating pump, liquid-ice coolant, and a container.

   Although this system has the advantage of allowing wearer mobility, the weight of the components limits the amount of ice that can be carried and thus reduces the effective use time. The heat transfer rate in liquid cooling systems may limit their use to low-activity jobs; even in such jobs, their service time is only about 20 minutes per pound of cooling ice. To keep outside heat from melting the ice, an outer insulating jacket should be an integral part of these systems.

4. **Circulating air** is the most highly effective, as well as the most complicated, personal cooling system. By directing compressed air around the body from a supplied air system, both evaporative and convective cooling are improved. The greatest advantage occurs when circulating air is used with impermeable garments or double cotton overalls.

   One type, used when respiratory protection is also necessary, forces exhaust air from a supplied-air hood ("bubble hood") around the neck and down inside an impermeable suit. The air then escapes through openings in the suit. Air can also be supplied directly to the suit without using a hood in three ways:

   - by a single inlet;
   - by a distribution tree; or
   - by a perforated vest.

   In addition, a vortex tube can be used to reduce the temperature of circulating air. The cooled air from this tube can be introduced either under the clothing or into a bubble hood. The use of a vortex tube separates the air stream into a hot and cold stream; these tubes also can be used to supply heat in cold climates. Circulating air, however, is noisy and requires a constant source of compressed air supplied through an attached air hose.

One problem with this system is the limited mobility of workers whose suits are attached to an air hose. Another is that of getting air to the work area itself. These systems should therefore be used in work areas where workers are not required to move around much or to climb. Another concern with these systems is that they can lead to dehydration. The cool, dry air feels comfortable and the worker may not realize that it is important to drink liquids frequently.

C. **RESPIRATOR USAGE.** The weight of a self-contained breathing apparatus (SCBA) increases stress on a worker, and this stress contributes to overall heat stress. Chemical protective clothing such as totally encapsulating chemical protection suits will also add to the heat stress problem.

VII. BIBLIOGRAPHY.

American Conference of Governmental Industrial Hygienists (ACGIH). 1990. *Documentation of the Threshold Limit Values and Biological Exposure Indices.* 6th ed. Cincinnati: American Conference of Governmental Industrial Hygienists.

American Conference of Governmental Industrial Hygienists (ACGIH). 1992. *1992-1993 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.* Cincinnati: American Conference of Governmental Industrial Hygienists.

American Industrial Hygiene Association (AIHA). 1975. *Heating and Cooling for Man in Industry.* 2nd ed. Akron, OH: American Industrial Hygiene Association.

Electric Power Research Institute (EPRI). 1987. *Heat-Stress Management Program for Nuclear Power Plants.* Palo Alto, CA: Electric Power Research Institute.

Eastman Kodak Company. 1983. *Ergonomic Design for People at Work.* Vol. II. Belmont, CA: Lifetime Learning Publications.

National Institute for Occupational Safety and Health. *Criteria for a Recommended Standard--Occupational Exposure to Hot Environments.* DHHS (NIOSH) Publication No. 86-113, April 1986.

National Institute for Occupational Safety and Health. *Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities.* DHHS (NIOSH) Publication No. 85-115, 1985.

National Institute for Occupational Safety and Health. *Standards for Occupational Exposures to Hot Environments: Proceedings of a Symposium.* DHHS (NIOSH) Publication No. 76-100, January 1976.

National Institute for Occupational Safety and Health. *Working in Hot Environments.* DHHS (NIOSH) Publication No. 86-112. Revised 1986.

National Safety Council. 1985. *Pocket Guide to Heat Stress.* Chicago, IL: National Safety Council.

Ramsey, J. D., Buford, C. L., Beshir, M.Y., and Jensen, R .C. *Effects of Workplace Thermal Conditions on Safe Work Behavior.* Journal of Safety Research 14:105-114, 1983.

Zenz, C. 1988. *Occupational Medicine: Principles and Practical Applications.* 2nd ed. St. Louis, MO: Mosby Year Book, Inc.

APPENDIX III:4-1. HEAT STRESS: GENERAL WORKPLACE REVIEW.

NOTE: Listed below are sample questions that the Compliance Officer may wish to consider when investigating heat stress in the workplace.

WORKPLACE DESCRIPTION.

A. Type of business
B. Heat-producing equipment or processes used
C. Previous history (if any) of heat-related problems
D. At "hot" spots:

- Is the heat steady or intermittent?
- Number of employees exposed?
- For how many hours per day?
- Is potable water available?
- Are supervisors trained to detect/evaluate heat stress symptoms?

ARE EXPOSURES TYPICAL FOR A WORKPLACE IN THIS INDUSTRY?

A. Weather at Time of Review
B. Temperature
C. Humidity
D. Air velocity
E. Is Day Typical of Recent Weather Conditions?
(Get information from the Weather Bureau)
F. Heat-Reducing Engineering Controls

G. Ventilation in place?
H. Ventilation operating?
I. Air conditioning in place?
J. Air conditioning operating?
K. Fans in place?
L. Fans operating?
M. Shields or insulation between sources and employees?
N. Are reflective faces of shields clean?

WORK PRACTICES TO DETECT, EVALUATE, AND PREVENT OR REDUCE HEAT STRESS.

A. Training program?
B. Content?
C. Where given?
D. For whom?
E. Liquid replacement program?
F. Acclimatization program?
G. Work/rest schedule?
H. Scheduling of work (during cooler parts of shift, cleaning and maintenance during shut-downs, etc.)
I. Cool rest areas (including shelter at outdoor work sites)?
J. Heat monitoring program?
K. Personal Protective Equipment
L. Reflective clothing in use?
M. Ice and/or water-cooled garments in use?
N. Wetted undergarments (used with reflective or impermeable clothing) in use?
O. Circulating air systems in use?
P. First Aid Program
Q. Trained personnel?
R. Provision for rapid cool-down?
S. Procedures for getting medical attention?
T. Transportation to medical facilities readily available for heat stroke victims?
U. Medical Screening and Surveillance Program
V. Content?
W. Who manages program?
X. Additional Comments

(Use additional pages as needed.)

APPENDIX III: 4-2. HEAT STRESS-RELATED ILLNESS OR ACCIDENT FOLLOW-UP.

A. Describe events leading up to the episode.
B. Evaluation/comments by other workers at the scene.
C. Work at time of episode (heavy, medium, light)?
D. How long was affected employee working at site prior to episode?
E. Medical history of affected worker, if known.
F. Appropriate engineering controls in place?
G. Appropriate engineering controls in operation?
H. Appropriate work practices used by affected employee(s)?
I. Appropriate personal protective equipment available?
J. Appropriate personal protective equipment in use?
K. Medical screening for heat stress and continued surveillance for signs of heat stress given other employees?
L. Additional comments regarding specific episode(s): (Use additional pages as needed.)

APPENDIX III: 4-3. MEASUREMENT OF WET BULB GLOBE TEMPERATURE.

Measurement is often required of those environmental factors that most nearly correlate with deep body temperature and other physiological responses to heat. At the present time, the Wet Bulb Globe Temperature Index (WBGT) is the most used technique to measure these environmental factors. WBGT values are calculated by the following equations:

Equation III:4-4. Indoor or Outdoor Wet Bulb Globe Temperature Indexes (WBGI) Indoor or outdoors with no solar load

$$WBGT = 0.7NWB + 0.3GT$$

Outdoors with solar load

$$WBGT = 0.7NWB + 0.2GT + 0.1DB$$

where: WBGT = Wet Bulb Globe Temperature Index
NWB = Natural Wet-Bulb Temperature
DB = Dry-Bulb (air) Temperature
GT = Globe Thermometer Temperature

The determination of WBGT requires the use of a black globe thermometer, a natural (static) wet-bulb thermometer, and a dry-bulb thermometer. The measurement of environmental factors shall be performed as follows:

1. The range of the dry and the natural wet-bulb thermometers should be -5°C to +50°C, with an accuracy of ±0.5°C. The dry bulb thermometer must be shielded from the sun and the other radiant surfaces of the environment without restricting the airflow around the bulb. The wick of the natural wet bulb thermometer should be kept wet with distilled water for at least one-half hour before the temperature reading is made. It is not enough to immerse the other end of the wick into a reservoir of distilled water and wait until the whole wick becomes wet by capillarity. The wick must be wetted by direct application of water from a syringe one-half hour before each reading. The wick must cover the bulb of the thermometer and an equal length of additional wick must cover the stem above the bulb. The wick should always be clean, and new wicks should be washed before using.

2. A globe thermometer, consisting of a 15 cm (6-inch) in diameter hollow copper sphere painted on the outside with a matte black finish, or equivalent, must be used. The bulb or sensor of a thermometer (range -5°C to +100°C with an accuracy of ±0.5°C) must be fixed in the center of the sphere. The globe thermometer should be exposed at least 25 minutes before it is read.

3. A stand should be used to suspend the three thermometers so that they do not restrict free air flow around the bulbs and the wet-bulb and globe thermometer are not shaded.

4. It is permissible to use any other type of temperature sensor that gives a reading similar to that of a mercury thermometer under the same conditions.

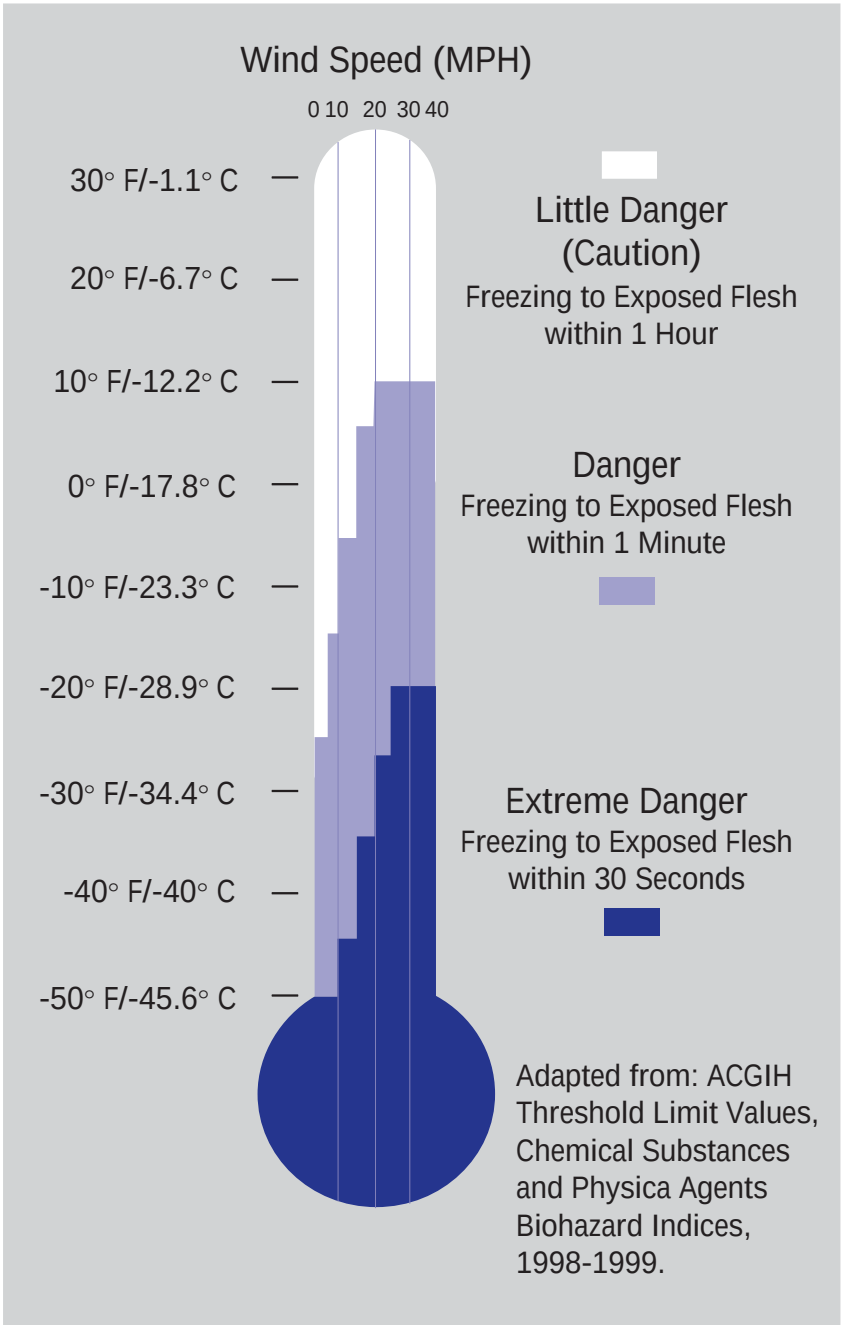
5. The thermometers must be placed so that the readings are representative of the employee's work or rest areas, as appropriate.

Once the WBGT has been estimated, employers can estimate workers' metabolic heat load (see Tables III:4-1 and III:4-2) and use the ACGIH method to determine the appropriate work/rest regimen, clothing, and equipment to use to control the heat exposures of workers in their facilities.

THE COLD STRESS EQUATION

LOW TEMPERATURE + WIND SPEED + WETNESS = INJURIES & ILLNESS

When the body is unable to warm itself, serious cold-related illnesses and injuries may occur, and permanent tissue damage and death may result. **Hypothermia** can occur when *land temperatures* are **above** freezing or *water temperatures* are below 98.6°F/37°C. Cold-related illnesses can slowly overcome a person who has been chilled by low temperatures, brisk winds, or wet clothing.



U.S. Department of Labor
Occupational Safety and Health Administration

OSHA 3156
1998

FROST BITE

What Happens to the Body:

FREEZING IN DEEP LAYERS OF SKIN AND TISSUE; PALE, WAXY-WHITE SKIN COLOR; SKIN BECOMES HARD and NUMB; USUALLY AFFECTS THE FINGERS, HANDS, TOES, FEET, EARS, and NOSE.

What Should Be Done: (land temperatures)

- Move the person to a warm dry area. Don't leave the person alone.
- Remove any wet or tight clothing that may cut off blood flow to the affected area.
- **DO NOT** rub the affected area, because rubbing causes damage to the skin and tissue.
- **Gently** place the affected area in a warm (105°F) water bath and monitor the water temperature to **slowly** warm the tissue. Don't pour warm water directly on the affected area because it will warm the tissue too fast causing tissue damage. Warming takes about 25-40 minutes.
- After the affected area has been warmed, it may become puffy and blister. The affected area may have a burning feeling or numbness. When normal feeling, movement, and skin color have returned, the affected area should be dried and wrapped to keep it warm. **NOTE:** If there is a chance the affected area may get cold again, do not warm the skin. If the skin is warmed and then becomes cold again, it will cause severe tissue damage.
- Seek medical attention as soon as possible.

HYPOTHERMIA - (Medical Emergency)

What Happens to the Body:

NORMAL BODY TEMPERATURE (98.6° F/37°C) DROPS TO OR BELOW 95°F (35^0 C); FATIGUE OR DROWSINESS; UNCONTROLLED SHIVERING; COOL BLUISH SKIN; SLURRED SPEECH; CLUMSY MOVEMENTS; IRRITABLE, IRRATIONAL OR CONFUSED BEHAVIOR.

What Should Be Done: (land temperatures)

- Call for emergency help (i.e., Ambulance or Call 911).
- Move the person to a warm, dry area. Don't leave the person alone. Remove any wet clothing and replace with warm, dry clothing or wrap the person in blankets.
- Have the person drink warm, sweet drinks (sugar water or sports-type drinks) if they are alert. **Avoid drinks with caffeine** (coffee, tea, or hot chocolate) or alcohol.
- Have the person move their arms and legs to create muscle heat. If they are unable to do this, place warm bottles or hot packs in the arm pits, groin, neck, and head areas. **DO NOT** rub the person's body or place them in warm water bath. This may stop their heart.

What Should Be Done: (water temperatures)

- Call for emergency help (Ambulance or Call 911). Body heat is lost up to 25 times faster in water.
- **DO NOT** remove any clothing. Button, buckle, zip, and tighten any collars, cuffs, shoes, and hoods because the layer of trapped water closest to the body provides a layer of insulation that slows the loss of heat. Keep the head out of the water and put on a hat or hood.
- Get out of the water as quickly as possible or climb on anything floating. **DO NOT** attempt to swim unless a floating object or another person can be reached because swimming or other physical activity uses the body's heat and reduces survival time by about 50 percent.
- If getting out of the water is not possible, wait quietly and conserve body heat by folding arms across the chest, keeping thighs together, bending knees, and crossing ankles. If another person is in the water, huddle together with chests held closely.

How to Protect Workers

- Recognize the environmental and workplace conditions that lead to potential cold-induced illnesses and injuries.
- Learn the signs and symptoms of cold-induced illnesses/injuries and what to do to help the worker.
- Train the workforce about cold-induced illnesses and injuries.
- Select proper clothing for cold, wet, and windy conditions. Layer clothing to adjust to changing environmental temperatures. Wear a hat and gloves, in addition to underwear that will keep water away from the skin (polypropylene).
- Take frequent short breaks in warm dry shelters to allow the body to warm up.
- Perform work during the warmest part of the day.
- Avoid exhaustion or fatigue because energy is needed to keep muscles warm.
- Use the buddy system (work in pairs).
- Drink warm, sweet beverages (sugar water, sports-type drinks). Avoid drinks with caffeine (coffee, tea, or hot chocolate) or alcohol.
- Eat warm, high-calorie foods like hot pasta dishes.

Workers Are at Increased Risk When…

- They have predisposing health conditions such as cardiovascular disease, diabetes, and hypertension.
- They take certain medication (check with your doctor, nurse, or pharmacy and ask if any medicines you are taking affect you while working in cold environments).
- They are in poor physical condition, have a poor diet, or are older.

Health and Safety Briefing/ Tailgate Meeting Form

HEALTH AND SAFETY BRIEFING / TAILGATE MEETING FORM

Site Name / Location _____

Date: _____ Weather Forecast: _____

Names of Personnel Attending Briefing

_____ _____ _____

_____ _____ _____

_____ _____ _____

Planned Work _____

_____

_____

_____

_____

Items Discussed _____

_____

_____

_____

_____

_____

_____

Work Permit Type and
Applicable Restrictions: _____

_____

_____

_____

Signatures of Attending Personnel

_____ _____ _____

_____ _____ _____

_____ _____ _____

Medical Data Form

Concentra™

(Patient Must Present Photo ID at Time of Service)

Authorization for Examination or Treatment

Patient Name: _____ Social Security Number: _____

Employer: _____ Date of Birth: _____

Street Address: _____ Location Number: _____

Temporary Staffing Agency: _____

Work Related

❑ Injury ❑ Illness

Date of Injury _____

Substance Abuse Testing★ (check all that apply)

❑ Regulated drug screen ❑ Breath alcohol

❑ Collection only ❑ Hair collect

❑ Non-regulated drug screen ❑ Rapid drug screen

❑ Other _____

Type of Substance Abuse Testing

❑ Preplacement ❑ Reasonable cause

❑ Post-accident ❑ Random

❑ Follow-up

Physical Examination

❑ Preplacement ❑ Baseline ❑ Annual ❑ Exit

DOT Physical Examination

❑ Preplacement ❑ Recertification

Special Examination

❑ Asbestos ❑ Respirator ❑ Audiogram

❑ Human Performance Evaluation★

❑ HAZMAT ❑ Medical Surveillance

❑ Other _____

Billing (check if applicable)

❑ Employee to pay charges

Special instructions/comments: _____

_____

_____

_____

★ Due to the nature of these specific services, only the patient and staff are allowed in the testing/treatment area. Please alert your employee so that they can make arrangements for children or others that might otherwise be accompanying them to the medical center.

Authorized by: _____ Title: _____

Please print

Phone: (_____) _____ _____

Date

Concentra now offers urgent care services for non-work related illness and injury. We accept many insurance plans.

(Copies of this form are available at www.concentra.com)

Patient Information

Concentra®
treated right

Thank you for trusting us with your care today.

Last name: _____ First name: _____ M.I.: _____
Patient SS #: _____ Date of Birth (MM/DD/YYYY): _____ ❑Married
Home phone: _____ Cell phone: _____ ❑Single
Reason for visit: _____ ❑Male ❑Female
Patient e-mail address: _____
Address: _____ Apt # _____ City: _____ ST: _____ ZIP: _____
Primary care physician name: _____ Phone: _____
Employer name: _____
Employer address: _____ City: _____ ST: _____ ZIP: _____
Emergency Contact Name: _____ Emergency Contact Phone: _____

How did you learn about Concentra? (Check one, please.)

❑Billboard ❑Direct mail ❑Doctor referral ❑Driving by ❑Employer ❑Existing patient ❑Friend/relative ❑Insurance company ❑Internet ❑Movie theater ❑Newspaper ❑Phone book ❑Radio ❑Pharmacy ❑School ❑Apartment Complex

Today's Payment

How will you be paying for today's bill?

Payment made today will be paid by:

❑ Patient Pay—I will be paying today using: ❑ Cash ❑ Check ❑ VISA ❑ MasterCard ❑ Discover ❑ Debit card
❑ My company—I am participating in a program that is company-paid.
❑ Insurance—I will present my insurance card and an approved form of ID. (Please complete next two sections.)

Insurance Information

If you're using insurance to pay today's bill, please provide this information...

Employer of insured person: _____
Insurance carrier: _____
Member ID: _____ Group #: _____
Claims address: _____ City: _____ ST: _____ ZIP: _____
Do you have insurance with more than one health plan? ❑ Yes ❑ No
If yes, name of other insurance carrier: _____
➲ (Please present both ID cards at check-in.)

Account Information

If you're using insurance, this is information about the person carrying the insurance...

Last name: _____ First name: _____ M.I.: _____
Account SS #: _____ Date of birth (MM/DD/YYYY): _____
Home phone: _____ Cell phone: _____
Address: _____ City: _____ ST: _____ ZIP: _____

Relationship to patient: (Check one, please.) ❑ Self ❑ Spouse ❑ Parent/Guardian ❑ Other: _____

I certify that the information provided is correct to the best of my knowledge. I will not hold Concentra, its health providers, or its employees responsible for any errors or omissions that I may have made in completing the information on this form.

You may be contacted by Westgate Research, acting on behalf of Concentra to participate in a satisfaction survey about this visit. We rely on your feedback to help us improve.

✍ Signature: _____ Date: _____

 Version 2.0 02/13 CONPIF-0911

Información Paciente

Concentra® treated right

Gracias por confiarnos sus cuidados de hoy.

Apellido: _____ Nombre: _____ Inicial Segundo Nombre: _____

#SS del paciente: _____ Fecha de nacimiento (MM/DD/AAAA): _____ ❑Casado(a)

Teléfono en casa: _____ Teléfono celular: _____ ❑Soltero(a)

Motivo de la consulta: _____ ❑Hombre ❑Mujer

Correo electrónico del paciente: _____

Dirección: _____ Apt #_____ Ciudad:_____ Estado: _____ Cód. Postal: _____

Nombre del médico de atención primaria: _____ Teléfono: _____

Nombre del empleador: _____

Dirección del empleador: _____ Ciudad: _____ Estado: _____ Cód. Postal: _____

Contacto de Emergencia: _____ Teléphono de Contacto de Emergencia: _____

Cómo se enteró de Concentra? (Por favor marque una)

❑Valla ❑Correo Directo ❑Remitido por un doctor ❑Pasábamos por aquí ❑Empleador ❑ Paciente existente
❑Amigo/pariente ❑Compañía de seguro ❑Internet ❑Teatro de cine ❑Periódico ❑Radio ❑Farmacia ❑Escuela
❑Complejo de Apartamentos

Pago de hoy

Cómo va a pagar la cuenta de hoy?

El pago de hoy lo va a hacer:

❑ El paciente – Yo pagaré la cuenta total usando: ❑ Efectivo ❑ Cheque ❑ VISA ❑ MasterCard ❑ Discover ❑ Tarjeta Débito

❑ La Compañía paga - Estoy participando en un programa que es pagado por la Compañía

❑ El seguro – Yo presentaré mi tarjeta de seguro y una forma de identificación aprobada
(Por favor complete las siguientes dos secciones).

Información del seguro

Si usted está usando seguro para pagar la cuenta de hoy, por favor provéanos con la siguiente información…

Empleador de la persona asegurada: _____

Compañía de seguro: _____

Identificación del Miembro: _____ # de Grupo: _____

Dirección de reclamos: _____ Ciudad: _____ Estado: _____ Cód. Postal: _____

Tiene seguro con más de un plan de salud? ❑ Si ❑ No

Si sí, nombre el otro seguro: _____

➲ (Por favor presente ambas tarjetas de identificación al registrarse)

Información de la cuenta

Si usted está usando seguro, esta es información acerca de la persona que tiene el seguro…

Apellido: _____ Nombre: _____ Inicial Seg. Nombre: _____

de SS en la Cuenta: _____ Fecha de Nacimiento: (MM/DD/AAAA) _____

Teléfono en casa:_____ Teléfono celular: _____

Dirección:_____ Ciudad: _____ Estado: _____ Cód. Postal: _____

Relación con el paciente: ❑ Usted mismo ❑ Cónyuge ❑ Padre/Guardián ❑ Otro: _____
(Por favor marque una)

Yo certifico que la información provista es correcta hasta donde yo sé. Yo no haré responsable a Concentra, sus proveedores de la salud, o sus empleados por cualquier error u omisión que yo haya hecho al llenar la información en este formulario.

✍ Firma: _____ Fecha: _____

Concentra®

Improving America's health, one patient at a time.

Patient Information

The Reason for Today's Visit

❑ Physical exam ❑ Drug Screen ❑ Physical and Drug Screen ❑ Injury
❑ DOT (CDL) certification ❑ Other: _____

Patient

Last name: _____ First name: _____ M.I.: _____
Social Security #: _____ Date of birth (MM/DD/YYYY): _____
Address: _____ Apt. # _____ City: _____ ST: _____ ZIP: _____
Contact phone (home or cell): _____ Work phone: _____ ❑ Female ❑ Male
Occupation _____ ❑ Single ❑ Married

Employer

Employer Requesting Services

Name: _____ Location/store number: _____
Contact name: _____ Contact phone: _____
Address: _____ City: _____ ST: _____ ZIP: _____
Is your employment arranged through a temporary hire agency? ❑ Yes ❑ No Name of agency: _____ Agency phone: _____

The information provided is correct to the best of my knowledge. I will not hold Concentra, its health providers, or its employees responsible for any errors or omissions that I may have made in completing the information on this form. You may contact my employer to verify the purpose of my visit, if necessary.

Signature: _____ **Date:** _____

Notice of Privacy Practices

Your name and signature below indicate that you have received a copy of Concentra's Notice of Privacy Practices on the date and time indicated. If you have any questions regarding the information in Concentra's Notice of Privacy Practices, contact Concentra's Privacy Office at 800-819-5571 or PrivacyOffice@concentra.com.

Name (please print): _____
Signature: _____
Date and time Notice received: _____

If you are here for an ***injury****, please complete the section below.*

Injury date: _____ Injury time: _____

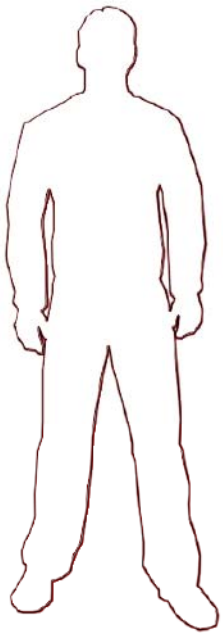
Where were you when the injury occurred?: _____

How did the injury happen? _____

What part of your body is injured? _____

Please check which side of your body is injured. ❑ Right ❑ Left ❑ Both

Using the figure at right, please circle the areas where you are injured. ➲



You may be contacted by Westgate Research, acting on behalf of Concentra, to participate in a satisfaction survey about this visit. We rely on your feedback to help us improve.

Concentra®

Mejorando la salud de los Estados Unidos, un paciente a la vez.

Información del Paciente

La razón para la consulta de hoy

❑ Examen físico ❑ Chequeo de drogas ❑ Examen físico y chequeo de drogas ❑ Lesión
❑ Certificación DOT (CDL) ❑ Otro: _____

Paciente

Apellido: _____ Nombre: _____ Inicial Seg. Nombre: _____
Seguro Social: _____ Fecha de Nacimiento (MM/DD/AAAA): _____
Dirección: _____ Apt. # _____ Ciudad: _____ Estado _____ Cód. Postal: _____
Teléfono de contacto (casa o celular): _____ Teléfono trabajo: _____ ❑ Mujer ❑ Hombre
Ocupación: _____ ❑ Soltero(a) ❑ Casado(a)

Empleador

Empleador Solicitando los Servicias

Nombre: _____ Ubicación/Tienda Número: _____
Nombre del Contacto: _____ Teléfono del Contacto: _____
Dirección: _____ Apt. # _____ Ciudad: _____ Estado _____ Cód. Postal: _____
¿Su empleo está contratado a través de una agencia de empleos temporales? ❑ Sí ❑ No
Nombre de la agencia: _____ Teléfono de la agencia: _____

La información provista es correcta hasta donde yo sé. Yo no haré responsable a Concentra, sus proveedores de la salud, o sus empleados por cualquier error u omisión que yo haya hecho al llenar la información en este formulario. Si es necesario, usted puede contactar a mi empleador para verificar el propósito de mi consulta.

Firma: _____ **Fecha:** _____

Aviso de las Politicos de Privacidad

Su nombre y firma abajo indican que usted ha recibido una copia de la Notificación de Politicas de Privacidad de Concentra en la fecha y hora indicados. Si usted tiene cualquier pregunta en relación con la Notificación de Prácticas de Privacidad de Concentra, por favor contacte al Oficial de Privacidad y Seguridad de Concentra al 800-819-5571 o PrivacyOffice@concentra.com.

Nombre (letra imprenta por favor) _____
Firma: _____
Fecha y hora de recibida la notificación: _____

Si usted está aquí por una ***lesión****, por favor llenela sección de abajo.*

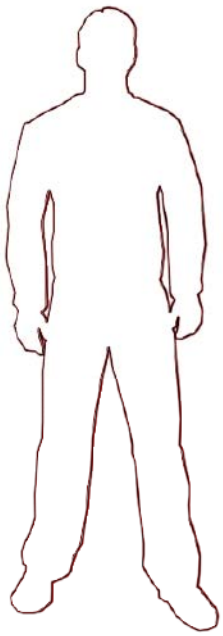
Fecha de la lesión: _____ Hora de la lesión: _____

¿Dónde estaba cuando ocurrió la lesión? _____

¿Cómo ocurrió la lesión? _____

¿Qué parte de su cuerpo está lesionada? _____

Por favor indique cuál lado de su cuerpo está lesionado ❑ Derecho ❑ Izquierdo ❑ Ambos
Utilizando el dibujo a la derecha, por favor marque con un círculo las áreas que están lesionadas ➲



Puede que lo contacter de Westgate Research, en representación de Concentra para que participe en una encuesta de satisfacción acerca de su consulta Nosotros contamos con esta información, la cual nos ayuda a mejorar.

Generic Community Air Monitoring Plan

APPENDIX G

New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing

monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring

particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

APPENDIX H

Accident Report and Investigation Form

☐ **Roux Associates, Inc.** ☐ **Remedial Engineering, P.C.**
(Check applicable company name)

ACCIDENT REPORT

Joe Gentile, Corporate Health and Safety Manager
Cell: (610) 844-6911; Office: (856) 423-8800; Office FAX: (856) 423-3220; Home: (484) 373-0953

PART 1: ADMINISTRATIVE INFORMATION

Project #: _____
Project Name: _____
Project Location (street address/city/state)**:**
_____
_____
Client Corporate Name / Contact / Address / Phone #:
_____
_____
_____
_____
_____

Immediate Verbal Notifications Given To:

Corporate Health & Safety	☐Yes	☐No
Office Health & Safety	☐Yes	☐No
Office Manager	☐Yes	☐No
Project Principal	☐Yes	☐No
Project Manager	☐Yes	☐No
Client Contact	☐Yes	☐No

REPORT STATUS (time due):
☐ Initial (24 hr) ☐ Final (5-10 days)
Date: _____ Date: _____

Accident Report Delivered To:

Corporate Health & Safety	☐Yes	☐No
Office Health & Safety	☐Yes	☐No
Office Manager	☐Yes	☐No
Project Principal	☐Yes	☐No
Project Manager	☐Yes	☐No

REPORT TYPE: ☐ Loss ☐ Near Loss Estimated Costs: $ _____

OSHA CASE # Assigned by Corporate Health & Safety if Applicable: _____

Corporate Health & Safety Confirmed Final Accident Report
☐Yes ☐No

DATE OF INCIDENT: _____

TIME INCIDENT OCCURRED: _____ ☐AM ☐PM

INCIDENT LOCATION – City, State, and Country (If outside U.S.A.)
_____

INCIDENT TYPES: (Select most appropriate if Loss occurred.)
From lists below, please select the option that best categories the incident. When selecting an injury or illness, also indicate the severity level.

☐**INJURY** ☐**ILLNESS**

----------Severity Level----------

☐Fatality ☐First Aid ☐Medical
☐Restricted Work ☐Lost Time Treatment

OTHER INCIDENT TYPES

☐Spill / Release
Material involved:_____
Quantity (U.S. Gallons): _____

☐Misdirected Waste ☐Consent Order ☐NOV
☐Property Damage ☐Exceedance
☐Motor Vehicle ☐Fine / Penalty

ACTIVITY TYPE (Check most appropriate one.)

☐Decommissioning	☐Geoprobe	☐Sampling
☐Demolition	☐Motor Vehicle	☐System Start-up
☐Dewatering	☐Operations/ Maintenance	☐Trenching
☐Drilling		☐AST/UST Removal
☐Excavation	☐Pump/Pilot Test	☐Other_____
☐Gauging	☐Rigging/Lifting	

INJURY TYPE (Check all applicable.)

☐Abrasion	☐Occupational Illness
☐Amputation	☐Puncture
☐Burn	☐Rash
☐Cold/Heat Stress	☐Repetitive Motion
☐Inflammation	☐Sprain/Strain
☐Laceration	☐Other_____

BODY PART AFFECTED (Check all applicable.)

☐Respiratory	☐Shoulder	☐Face
☐Neck	☐Arm	☐Leg
☐Chest	☐Wrist	☐Knee
☐Abdomen	☐Hand/Fingers	☐Ankle
☐Groin	☐Eye	☐Foot/Toes
☐Back	☐Head	☐Other_____

I. PERSON(S) DIRECTLY / INDIRECTLY INVOLVED IN INCIDENT (Attach additional information as necessary/applicable.)

Name/Phone # of Each Person Directly/Indirectly Involved in Incident:	Designate: Roux/Remedial Employee Roux/Remedial Subcontractor Client Employee Client Contractor Third Party	As applicable, Current Occupation; Yrs in Current Occupation; Current Position; and Yrs in Current Position:	As applicable, Employer Name; Address; and Phone #:	As applicable, Supervisor Name; and Phone #:
1)				
2)				

II. PERSONS INJURED IN INCIDENT (Attach additional information as necessary/applicable.)

Name/Phone # of Each Person Injured in Incident:	Designate: Roux/Remedial Employee Roux/Remedial Subcontractor Client Employee Client Contractor Third Party	As applicable, Current Occupation; Yrs in Current Occupation; Current Position; and Yrs in Current Position:	As applicable, Employer Name; Address; and Phone #:	As applicable, Supervisor Name; and Phone #:	Description of Injury:
1)					
2)					

III. PROPERTY DAMAGED IN INCIDENT (Attach additional information as necessary/applicable.)

Property Damaged:	Property Location:	Owner Name, Address & Phone #:	Description of Damage:	Estimated Cost:
1)				$

2)				$

IV. WITNESSES TO INCIDENT (Attach additional information as necessary/applicable.)

Witness Name:	Address:	Phone #:
1)		
2)		

PART 2: WHAT HAPPENED AND INCIDENT DETAILS

PROVIDE FACTUAL DESCRIPTION OF INCIDENT (e.g., describe loss/near loss, injury, response / treatment).

I. AUTHORITIES/GOVERNMENTAL AGENCIES NOTIFIED (Attach additional information as necessary/applicable.)

Authority/Agency Notified:	Name/Phone #/Fax # of Person Notified:	Address of Person Notified:	Date & Time of Notification:	Exact Information Reported/Provided:

II. PUBLIC RESPONSES TO INCIDENT (if applicable)

Response/Inquiry By: (check one)	Entity Name:	Name/Phone # of Respondent/ Inquirer:	Address of Entity/Person:	Date & Time of Response/Inquiry:
☐Newspaper ☐Television ☐Community Group ☐Neighbors ☐Other _____				

Describe Response/Inquiry:

Roux/Remedial Response:

(Check all that apply.) (Attach photos, drawings, etc. to help illustrate the incident.)

ATTACHED INFORMATION: ☐Photo ☐Sketches ☐Vehicle Acord Form ☐Police Report ☐Other

Name(s) of person(s) who prepared Initial and Final Report:	**Title(s):**	**Phone number(s):**

PART 3: INVESTIGATION TEAM ANALYSIS

CONCLUSION: WHY IT HAPPENED (LIST CAUSAL FACTORS AND CORRESPONDING ROOT CAUSES)

(Root Causes: Lack of knowledge or skill, Doing the task according to procedures or acceptable practices takes more time or effort, Short-cuts or not following acceptable practices is reinforced or tolerated, Not following procedures or acceptable practices did not result in an accident, Lack of or inadequate procedures, Inadequate communications of expectations regarding procedures or acceptable practices, Inadequate tools or equipment, External Factors)

ROOT CAUSE(S) AND SOLUTION(S): HOW TO PREVENT INCIDENT FROM RECURRING

CAUSAL FACTOR	ROOT CAUSE		SOLUTION(S) [Must Match Root Cause(s)]		PERSON RESPONSIBLE	AGREED DUE DATE	ACTUAL COMPLETION DATE
			#	Solution(s)			
			1				
			2				
			3				

INVESTIGATION TEAM:

PRINT NAME	JOB POSITION	DATE	SIGNATURE

No One Gets Hurt!

APPENDIX I

Acord Automobile Loss Form

AUTOMOBILE LOSS NOTICE

DATE (MM/DD/YYYY)

AGENCY
The Treiber Group
AJ Gallagher Risk Mgmt Svcs
377 Oak Street
Garden City, NY 11530

CONTACT NAME: Teresa Garzia
PHONE (A/C, No, Ext): 516.622.2418
FAX (A/C, No): 516.622.2618
E-MAIL ADDRESS: teresa_garzia@ajg.com
CODE: SUBCODE:
AGENCY CUSTOMER ID: ROUXASSO

INSURED LOCATION CODE

DATE OF LOSS AND TIME ☐ AM ☐ PM

CARRIER Great Divide Insurance Company
NAIC CODE 25224

POLICY NUMBER BAP1549799-10

POLICY TYPE Commercial Automobile

INSURED

NAME OF INSURED (First, Middle, Last)
Roux Associates, Inc.

DATE OF BIRTH

FEIN (if applicable) 11-2579482

MARITAL STATUS / CIVIL UNION (if applicable)

PRIMARY PHONE # ☐ HOME ☑ BUS ☐ CELL
631.232.2600

SECONDARY PHONE # ☐ HOME ☐ BUS ☐ CELL

INSURED'S MAILING ADDRESS
Susan Sullivan, General Counsel, Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

PRIMARY E-MAIL ADDRESS: LegalDept@rouxinc.com
SECONDARY E-MAIL ADDRESS: Fax Notice of Loss to: 631.232.1525

CONTACT

☐ CONTACT INSURED

NAME OF CONTACT (First, Middle, Last)
Susan Sullivan, General Counsel

PRIMARY PHONE # ☐ HOME ☑ BUS ☐ CELL
631.232.2600

SECONDARY PHONE # ☐ HOME ☐ BUS ☐ CELL

WHEN TO CONTACT

CONTACT'S MAILING ADDRESS
Susan Sullivan, General Counsel, Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

PRIMARY E-MAIL ADDRESS: LegalDept@rouxinc.com
SECONDARY E-MAIL ADDRESS: Fax Notice of Loss to: 631.232.1525

LOSS

LOCATION OF LOSS
STREET:
CITY, STATE, ZIP:
COUNTRY:

POLICE OR FIRE DEPARTMENT CONTACTED

REPORT NUMBER

DESCRIBE LOCATION OF LOSS IF NOT AT SPECIFIC STREET ADDRESS:

DESCRIPTION OF ACCIDENT (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

INSURED VEHICLE

VEH #	YEAR	MAKE:	BODY TYPE:	PLATE NUMBER	STATE
		MODEL:	V.I.N.:		

OWNER'S NAME AND ADDRESS ☐ (Check if same as insured)

PRIMARY PHONE # ☐ HOME ☐ BUS ☐ CELL
SECONDARY PHONE # ☐ HOME ☐ BUS ☐ CELL
PRIMARY E-MAIL ADDRESS:
SECONDARY E-MAIL ADDRESS:

DRIVER'S NAME AND ADDRESS ☐ (Check if same as owner)

PRIMARY PHONE # ☐ HOME ☐ BUS ☐ CELL
SECONDARY PHONE # ☐ HOME ☐ BUS ☐ CELL
PRIMARY E-MAIL ADDRESS:
SECONDARY E-MAIL ADDRESS:

RELATION TO INSURED (Employee, family, etc.)	DATE OF BIRTH	DRIVER'S LICENSE NUMBER	STATE	PURPOSE OF USE	USED WITH PERMISSION? (Y/N)

DESCRIBE DAMAGE

1. WAS A STANDARD CHILD PASSENGER RESTRAINT SYSTEM (CHILD SEAT) INSTALLED IN THE VEHICLE AT THE TIME OF THE ACCIDENT?	Y / N
2. WAS THE CHILD PASSENGER RESTRAINT SYSTEM (CHILD SEAT) IN USE BY A CHILD DURING THE TIME OF THE ACCIDENT?	Y / N
3. DID THE CHILD PASSENGER RESTRAINT SYSTEM (CHILD SEAT) SUSTAIN A LOSS AT THE TIME OF THE ACCIDENT?	Y / N

ESTIMATE AMOUNT:	WHERE CAN VEHICLE BE SEEN?:	WHEN CAN VEHICLE BE SEEN?:
OTHER INSURANCE ON VEHICLE - CARRIER:		POLICY NUMBER:

OTHER VEHICLE / PROPERTY DAMAGED **NON - VEHICLE?** ☐ **AGENCY CUSTOMER ID:** ROUXASSO

VEH #	YEAR	MAKE:	BODY TYPE:	PLATE NUMBER	STATE
		MODEL:	V.I.N.:		

DESCRIBE PROPERTY (Other Than Vehicle) **OTHER VEH/PROP INS? (Y/N)** ☐

CARRIER OR AGENCY NAME	NAIC CODE	POLICY NUMBER

OWNER'S NAME AND ADDRESS

PRIMARY PHONE # ☐ HOME ☐ BUS ☐ CELL **SECONDARY PHONE #** ☐ HOME ☐ BUS ☐ CELL

PRIMARY E-MAIL ADDRESS:

SECONDARY E-MAIL ADDRESS:

DRIVER'S NAME AND ADDRESS ☐ **(Check if same as owner)**

PRIMARY PHONE # ☐ HOME ☐ BUS ☐ CELL **SECONDARY PHONE #** ☐ HOME ☐ BUS ☐ CELL

PRIMARY E-MAIL ADDRESS:

SECONDARY E-MAIL ADDRESS:

DESCRIBE DAMAGE

ESTIMATE AMOUNT	WHERE CAN DAMAGE BE SEEN?	

INJURED

NAME & ADDRESS	PHONE (A/C, No)	PED	INS VEH	OTH VEH	AGE	EXTENT OF INJURY
		☐	☐	☐		
		☐	☐	☐		
		☐	☐	☐		
		☐	☐	☐		

WITNESSES OR PASSENGERS

NAME & ADDRESS	PHONE (A/C, No)	INS VEH	OTH VEH	OTHER (Specify)
		☐	☐	
		☐	☐	
		☐	☐	

REPORTED BY	REPORTED TO

REMARKS (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

APPLICABLE IN ALASKA

A person who knowingly and with intent to injure, defraud, or deceive an insurance company files a claim containing false, incomplete, or misleading information may be prosecuted under state law.

APPLICABLE IN ARIZONA

For your protection, Arizona law requires the following statement to appear on this form. Any person who knowingly presents a false or fraudulent claim for payment of a loss is subject to criminal and civil penalties.

APPLICABLE IN ARKANSAS, DELAWARE, KENTUCKY, LOUISIANA, MAINE, MICHIGAN, NEW JERSEY, NEW MEXICO, NORTH DAKOTA, PENNSYLVANIA, RHODE ISLAND, SOUTH DAKOTA, TENNESSEE, TEXAS, VIRGINIA, AND WEST VIRGINIA

Any person who knowingly and with intent to defraud any insurance company or another person, files a statement of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact, material thereto, commits a fraudulent insurance act, which is a crime, subject to criminal prosecution and civil penalties. In LA, ME, TN, and VA, insurance benefits may also be denied.

APPLICABLE IN CALIFORNIA

For your protection, California law requires the following to appear on this form: Any person who knowingly presents a false or fraudulent claim for payment of a loss is guilty of a crime and may be subject to fines and confinement in state prison.

APPLICABLE IN COLORADO

It is unlawful to knowingly provide false, incomplete, or misleading facts or information to an insurance company for the purpose of defrauding or attempting to defraud the company. Penalties may include imprisonment, fines, denial of insurance, and civil damages. Any insurance company or agent of an insurance company who knowingly provides false, incomplete, or misleading facts or information to a policy holder or claimant for the purpose of defrauding or attempting to defraud the policy holder or claimant with regard to a settlement or award payable from insurance proceeds shall be reported to the Colorado Division of Insurance within the Department of Regulatory Agencies.

APPLICABLE IN THE DISTRICT OF COLUMBIA

Warning: It is a crime to provide false or misleading information to an insurer for the purpose of defrauding the insurer or any other person. Penalties include imprisonment and/or fines. In addition, an insurer may deny insurance benefits, if false information materially related to a claim was provided by the applicant.

APPLICABLE IN FLORIDA

Pursuant to S. 817.234, Florida Statutes, any person who, with the intent to injure, defraud, or deceive any insurer or insured, prepares, presents, or causes to be presented a proof of loss or estimate of cost or repair of damaged property in support of a claim under an insurance policy knowing that the proof of loss or estimate of claim or repairs contains any false, incomplete, or misleading information concerning any fact or thing material to the claim commits a felony of the third degree, punishable as provided in S. 775.082, S. 775.083, or S. 775.084, Florida Statutes.

APPLICABLE IN HAWAII

For your protection, Hawaii law requires you to be informed that presenting a fraudulent claim for payment of a loss or benefit is a crime punishable by fines or imprisonment, or both.

APPLICABLE IN IDAHO

Any person who knowingly and with the intent to injure, defraud, or deceive any insurance company files a statement of claim containing any false, incomplete or misleading information is guilty of a felony.

APPLICABLE IN INDIANA

A person who knowingly and with intent to defraud an insurer files a statement of claim containing any false, incomplete, or misleading information commits a felony.

APPLICABLE IN KANSAS

Any person who, knowingly and with intent to defraud, presents, causes to be presented or prepares with knowledge or belief that it will be presented to or by an insurer, purported insurer, broker or any agent thereof, any written statement as part of, or in support of, an application for the issuance of, or the rating of an insurance policy for personal or commercial insurance, or a claim for payment or other benefit pursuant to an insurance policy for commercial or personal insurance which such person knows to contain materially false information concerning any fact material thereto; or conceals, for the purpose of misleading, information concerning any fact material thereto commits a fraudulent insurance act.

APPLICABLE IN MARYLAND

Any person who knowingly and [or]* willfully presents a false or fraudulent claim for payment of a loss or benefit or who knowingly and [or]* willfully presents false information in an application for insurance is guilty of a crime and may be subject to fines and confinement in prison. * [or] effective 01-01-2013

APPLICABLE IN MINNESOTA

A person who files a claim with intent to defraud or helps commit a fraud against an insurer is guilty of a crime.

APPLICABLE IN NEVADA

Pursuant to NRS 686A.291, any person who knowingly and willfully files a statement of claim that contains any false, incomplete or misleading information concerning a material fact is guilty of a felony.

APPLICABLE IN NEW HAMPSHIRE

Any person who, with purpose to injure, defraud or deceive any insurance company, files a statement of claim containing any false, incomplete or misleading information is subject to prosecution and punishment for insurance fraud, as provided in RSA 638:20.

APPLICABLE IN NEW YORK

Any person who knowingly and with intent to defraud any insurance company or other person files an application for commercial insurance or a statement of claim for any commercial or personal insurance benefits containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, and any person who in connection with such application or claim knowingly makes or knowingly assists, abets, solicits or conspires with another to make a false report of the theft, destruction, damage or conversion of any motor vehicle to a law enforcement agency, the Department of Motor Vehicles or an insurance company, commits a fraudulent insurance act, which is a crime, and shall also be subject to a civil penalty not to exceed five thousand dollars and the value of the subject motor vehicle or stated claim for each violation.

APPLICABLE IN OHIO

Any person who, with intent to defraud or knowing that he/she is facilitating a fraud against an insurer, submits an application or files a claim containing a false or deceptive statement is guilty of insurance fraud.

APPLICABLE IN OKLAHOMA

WARNING: Any person who knowingly and with intent to injure, defraud or deceive any insurer, makes any claim for the proceeds of an insurance policy containing any false, incomplete or misleading information is guilty of a felony.

APPLICABLE IN WASHINGTON

It is a crime to knowingly provide false, incomplete, or misleading information to an insurance company for the purpose of defrauding the company. Penalties include imprisonment, fines and denial of insurance benefits.

Near Loss Reporting Form

NEAR LOSS REPORT FORM

Incident ID: _____

IMPORTANT: Do not include any personal non-work related medical information on this form

PART 1: ADMINISTRATIVE INFORMATION

Project Manager :		
Project Site Name:		
City:	**State/Province:**	**Country:**

PART 2: NEAR LOSS DETAILS

Date\Time Occurred (MM/DD/YYYY HH:MM)**:**	**Date\Time Submitted to IMPACT** (MM/DD/YYYY HH:MM)**:**

NEAR LOSS TYPE - What could have happened? - Select all that apply (1-7)

1. ☐ Fire / Explosion
2. ☐ Injury / Illness
3. ☐ Security (e.g theft, trespassing, vandalism)
4. ☐ Environmental (spill, permit exceedance, etc.)
5. ☐ Transportation of personnel (vehicle accident)
6. ☐ Property/Equipment Damage
7. ☐ Business Interruption

Event Leading to Potential Injury/Illness*:	**Activity:** Remediation	**Phase of Operation :** Remediation
Job Task*:	**Equipment Involved*:**	

WHAT HAPPENED? Do not include individuals' or company names. Ensure photos, sketches, etc. are not personally identifiable unless written consent has been obtained. **(NOTE: For IMPACT entry, this information must be in English.)**

Summary (1-2 sentences. Provide brief description of the incident. Provide facts only, no speculation or opinion)**:**

Near Loss Details (Brief factual details of what, where, when; include photos, sketches, etc. as attachments)**:**

Immediate Corrective Actions Taken:

NEAR LOSS INVOLVED:

Was a post-incident alcohol or drug test conducted? ☐ **1. Yes** ☐ **2. No**

Contractor Company Name:	**Subcontractor Company Name:**

PART 3: NEAR LOSS INVESTIGATION FINDINGS AND REPORT QUALITY REVIEW

Date Investigation Team Assigned (mm/dd/yyyy):

INVESTIGATION SUMMARY: Determine and list by number what behaviors and/or conditions may have contributed to the Near Loss. Then, use the "5-Why Technique" for each of these behaviors/conditions; provide a narrative for each that explains how the associated root cause(s) was determined. Do not include individuals' or company names. **(NOTE: For IMPACT entry, this information must be in English.)**

ROOT CAUSE NUMBER(S) AND SOLUTION(S): HOW TO REDUCE POSSIBILITY OF INCIDENT RECURRING

Selection of RCs and solutions reflects the analysis of investigation team and is not meant to be a legally binding conclusion as to the RC and/or solution.

Behavior/ Condition #	Root Cause # (1/line)	Solution(s) (must match Root Cause) (For IMPACT entry, solutions must be in English.)	Job Title Responsible for Completion	Completion Target Date	Completion Actual Date

QUALITY REVIEW Were the correct root cause(s) identified? Do root cause(s) and solution(s) match? Are solution(s) feasible / maintainable?

Job Title :	**Company :**

PART 4: VERIFICATION (Solutions Implemented) & VALIDATION (Solutions Effective)

Date	Solution	Verifier / Validator Job Title	Verifier / Validator Company	**Details** (of V & V performed)

* Use reference lists on the back side of this form

Incident Report – Page 2

JOB TASK - Select the most appropriate one (primary job associated with incident-related work activity, avoid "Other" if possible)

- ♦ 1. Carbon Change
- ♦ 2. Construction
- ♦ 3. Demolition
- ♦ 4. Dewatering
- ♦ 5. Drilling (includes well
- ♦ 6. Excavation / Trenching
- ♦ 7. Gauging
- ♦ 8. Geoprobe / Direct Push
- ♦ 9. Mobil Remediation (includes vacuum event and chemical injection)
- ♦ 10. NAPL Recovery
- ♦ 11. O&M (remediation system)
- ♦ 12. Pavement Cutting
- ♦ 13. Pump Test
- ♦ 14. Sampling
- ♦ 15. Site Visit / Survey
- ♦ 16. Subsurface Clearance
- ♦ 17. System Install
- ♦ 18. System Startup
- ♦ 19. UST Removal (includes tank exposure and backfill)
- ♦ 20. Waste Management
- ♦ 21. Well Plugging/Abandonment
- ♦ 22. Other: _____

EVENT LEADING TO POTENTIAL INJURY/ILLNESS - Select the most appropriate one

Body Position/Force:

- ♦ 1. Line of Fire
- ♦ 2. Overexertion, Strain
- ♦ 3. Struck Against Object
- ♦ 4. Struck By Object
- ♦ 5. Personal Energy
- ♦ 6. Repetitive Strain Injury (RSI)
- ♦ 7. **Buried**
- ♦ 8. **Caught In, Under, Between**

Chemical Exposure:

- ♦ 9. Inhalation
- ♦ 10. Ingestion
- ♦ 11. Physical Contact

Contact By:

- ♦ 12. Animal, Insect, Plant
- ♦ 13. Blood / Potentially Infectious Materials
- ♦ 14. Electricity
- ♦ 15. Noise
- ♦ 16. Other Physical Agents
- ♦ 17. Radiation
- ♦ 18. Temperature Extremes
- ♦ 19. **Drowning**

Falls:

- ♦ 20. Fall, From Elevation
- ♦ 21. Fall, Same Level
- ♦ 22. Slip or Trip Without Fall
- ♦ 23. **Food Consumption**
- ♦ 24. **Suffocate/Asphyxiate (Lack of Oxygen)**
- ♦ 25. **Transportation Incident**
- ♦ 26. **Other** (describe)**:** _____

EQUIPMENT INVOLVED THAT CONTRIBUTED TO NEAR LOSS - Select all that apply

- ♦ 1. Air Stripper
- ♦ 2. API Separator
- ♦ 3. Automobile
- ♦ 4. Boom Material
- ♦ 5. Bulldozer
- ♦ 6. Cable
- ♦ 7. Carbon Drum / Vessel
- ♦ 8. Chain Block
- ♦ 9. Compressor, Air
- ♦ 10. Control Panel (local)
- ♦ 11. Crane (mobile)
- ♦ 12. Drill Rig
- ♦ 13. Drilling Equipment, Vacuum
- ♦ 14. Drum, Vertical
- ♦ 15. Dump Truck
- ♦ 16. Electric Heater
- ♦ 17. Electrical Power Supply
- ♦ 18. Engine, Internal Combustion
- ♦ 19. Equipment Safety Grounding
- ♦ 20. Excavator / Power Shovel
- ♦ 21. Exclusion Zone Equipment
- ♦ 22 Fan, Centrifugal / Blower
- ♦ 23 Fencing
- ♦ 24 Filter
- ♦ 25. Fire Extinguisher
- ♦ 26. Forklift
- ♦ 27. Front End Loader
- ♦ 28. Grader
- ♦ 29. Hand Tool, Hammer
- ♦ 30. Hand Tool, Knife
- ♦ 31. Hand Tool, Non-Powered
- ♦ 32. Hand Tool, Powered
- ♦ 33. Hand Tool, Powered, Drill
- ♦ 34. Hand Tool, Powered, Grinder
- ♦ 35. Hand Tool, Powered, Hydraulic Torque
- ♦ 36. Hand Tool, Powered, Saw
- ♦ 37. Hand Tool, Powered, Wrench, Impact
- ♦ 38. Hand Tool, Saw
- ♦ 39. Hand Tool, Screwdriver
- ♦ 40. Hand Tool, Shears
- ♦ 41. Hand Tool, Shovel
- ♦ 42. Hand Tool, Snip
- ♦ 43. Hand Tool, Wrench
- ♦ 44. Hoist
- ♦ 45, Hook/Clamp/Buckle, etc.
- ♦ 46. Jack
- ♦ 47. Ladder, Extension
- ♦ 48. Ladder, Platform
- ♦ 49. Ladder, Step
- ♦ 50. Lock / Tag
- ♦ 51. Maintenance Tool, General
- ♦ 52. Manifold
- ♦ 53, Manlift/Basket/Cherry Picker
- ♦ 54. Motor, Electric
- ♦ 55. Oxidizer
- ♦ 56. Pallet
- ♦ 57. Piping
- ♦ 58. Piping, Hose
- ♦ 59. Piping, Injection/Mixing Point
- ♦ 60. Powered Tools, Hydrojet
- ♦ 61. Pump, Centrifugal
- ♦ 62. Pump, Diaphragm
- ♦ 63. Pump, Reciprocating
- ♦ 64. Pump, Regenerative
- ♦ 65. Pump, Rotary
- ♦ 66. Pumps (transfer, electrical)
- ♦ 67. Pump, Submerged
- ♦ 68. PPE, Face Shield
- ♦ 69. PPE, Fall Protection
- ♦ 70. PPE, Gloves
- ♦ 71. PPE, Hard Hat / Helmet
- ♦ 72. PPE, Hearing Protection
- ♦ 73. PPE, Respiratory, Chemical
- ♦ 74. PPE, Respiratory, Particulate
- ♦ 75. PPE, Safety Glasses
- ♦ 76. PPE, Safety Goggles
- ♦ 77. PPE, Safety Shoes / Boots
- ♦ 78. PPE, Safety Vest / Clothing
- ♦ 79. Rope
- ♦ 80. Sampling Equipment, Bailer
- ♦ 81. Sampling Equipment, Geoprobe
- ♦ 82. Sampling Equipment, Hand Auger
- ♦ 83. Sampilng Equpment, PID
- ♦ 84. Sampling Equipment, Sample Container
- ♦ 85. Sampling Equipment, Split Spoon Sampler
- ♦ 86. Sling
- ♦ 87. Snow Blower
- ♦ 88. Snow Plow
- ♦ 89. Space Heater, Electric
- ♦ 90. System, Air Sparging
- ♦ 91. System, Carbon Treatment
- ♦ 92. System, Chemical Oxidation
- ♦ 93. System, Dual Phase Product Recover
- ♦ 94. System, Groundwater Pump and Treat
- ♦ 95. System, POET
- ♦ 96. System, Shed or Trailer
- ♦ 97. System, Vapor Extraction
- ♦ 98. System, Vapor Phase Treatment
- ♦ 99. System, Other
- ♦ 100. Tank, Surge
- ♦ 101. Tank, Underground
- ♦ 102. Telemetry System
- ♦ 103. Testing Devices
- ♦ 104. Tractor Trailer
- ♦ 105. Truck, Flatbed
- ♦ 106. Truck, Pickup
- ♦ 107. Truck, Tank Truck
- ♦ 108. Truck, Vacuum
- ♦ 109. Valve, Safety
- ♦ 110. Valve, Block
- ♦ 111. Well, Extraction
- ♦ 112. Well, Monitoring
- ♦ 113. Well, Recpvery
- ♦ 114. Winch
- ♦ 115. Wire Rope
- ♦ 116. No Equipment Involved
- ♦ 117. Not in List (describe): _____

ROOT CAUSE NUMBER(S)

PERSONAL FACTORS:

(1) LACK OF SKILL OR KNOWLEDGE
(2) DOING THE JOB ACCORDING TO PROCEDURES OR ACCEPTABLE PRACTICES TAKES MORE TIME OR EFFORT
(3) SHORT-CUTTING PROCEDURES OR ACCEPTABLE PRACTICES IS POSITIVELY REINFORCED OR TOLERATED
(4) IN PAST, DID NOT FOLLOW PROCEDURES OR ACCEPTABLE PRACTICES AND NO INCIDENT OCCURRED

JOB FACTORS:

(5) LACK OF OR INADEQUATE PROCEDURES
(6) INADEQUATE COMMUNICATION OF EXPECTATIONS REGARDING PROCEDURES OR ACCEPTABLE STANDARDS
(7) INADEQUATE TOOLS OR EQUIPMENT (available, maintained, etc.)

OSHA Log of
Occupational Injuries and Illnesses

OSHA's Form 300 (Rev. 01/2004)

Log of Work-Related Injuries and Illnesses

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 20__ __

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

You must record information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid. You must also record significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional. You must also record work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12. Feel free to use two lines for a single case if you need to. You must complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.

Establishment name _____

City _____ State _____

Identify the person			Describe the case			Classify the case				Enter the number of days the injured or ill worker was:		Check the "Injury" column or choose one type of illness:					
						CHECK ONLY ONE box for each case based on the most serious outcome for that case:											
								Remained at Work				(M)					
(A) Case no.	(B) Employee's name	(C) Job title (*e.g., Welder*)	(D) Date of injury or onset of illness	(E) Where the event occurred (*e.g., Loading dock north end*)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (*e.g., Second degree burns on right forearm from acetylene torch*)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other record-able cases (J)	Away from work (K)	On job transfer or restriction (L)	Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
			Page totals ➤			___	___	___	___	___	___	___	___	___	___	___	___

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
___	___	___	___	___	___

OSHA's Form 300A (Rev. 01/2004)

Summary of Work-Related Injuries and Illnesses

Year 20__ __

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
_____	_____	_____	_____
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
_____	_____
(K)	(L)

Injury and Illness Types

Total number of . . .

	(M)		(M)
(1) Injuries	_____	(4) Poisonings	_____
		(5) Hearing loss	_____
(2) Skin disorders	_____	(6) All other illnesses	_____
(3) Respiratory conditions	_____		

Establishment information

Your establishment name _____

Street _____

City _____ State _____ ZIP _____

Industry description (*e.g., Manufacture of motor truck trailers*)

_____

Standard Industrial Classification (SIC), if known (*e.g., 3715*)

____ ____ ____ ____

OR

North American Industrial Classification (NAICS), if known (e.g., 336212)

____ ____ ____ ____ ____ ____

Employment information *(If you don't have these figures, see the Worksheet on the back of this page to estimate.)*

Annual average number of employees _____

Total hours worked by all employees last year _____

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

_____ _____
Company executive Title

( ) - / /
Phone Date

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Optional

Worksheet to Help You Fill Out the Summary

At the end of the year, OSHA requires you to enter the average number of employees and the total hours worked by your employees on the summary. If you don't have these figures, you can use the information on this page to estimate the numbers you will need to enter on the Summary page at the end of the year.

How to figure the average number of employees who worked for your establishment during the year:

❶ ***Add*** the total number of employees your establishment paid in all pay periods during the year. Include all employees: full-time, part-time, temporary, seasonal, salaried, and hourly.

The number of employees paid in all pay periods = ❶ _____

❷ ***Count*** the number of pay periods your establishment had during the year. Be sure to include any pay periods when you had no employees.

The number of pay periods during the year = ❷ _____

❸ ***Divide*** the number of employees by the number of pay periods.

❶ / ❷ _____ = ❸ _____

❹ ***Round the answer*** to the next highest whole number. Write the rounded number in the blank marked *Annual average number of employees*.

The number rounded = ❹ _____

For example, Acme Construction figured its average employment this way:

For pay period...	**Acme paid this number of employees...**
1	10
2	0
3	15
4	30
5	40
▼	▼
24	20
25	15
26	+10
	830

Number of employees paid = 830 ❶

Number of pay periods = 26 ❷

830 / 26 = 31.92 ❸

31.92 rounds to 32 ❹

32 is the annual average number of employees

How to figure the total hours worked by all employees:

Include hours worked by salaried, hourly, part-time and seasonal workers, as well as hours worked by other workers subject to day to day supervision by your establishment (e.g., temporary help services workers).

Do not include vacation, sick leave, holidays, or any other non-work time, even if employees were paid for it. If your establishment keeps records of only the hours paid or if you have employees who are not paid by the hour, please estimate the hours that the employees actually worked.

If this number isn't available, you can use this optional worksheet to estimate it.

Optional Worksheet

_____ ***Find*** the number of full-time employees in your establishment for the year.

X _____ ***Multiply*** by the number of work hours for a full-time employee in a year.

_____ This is the number of full-time hours worked.

\+ _____ ***Add*** the number of any overtime hours as well as the hours worked by other employees (part-time, temporary, seasonal)

_____ ***Round*** the answer to the next highest whole number. Write the rounded number in the blank marked *Total hours worked by all employees last year.*

U.S. Department of Labor
Occupational Safety and Health Administration

OSHA's Form 301
Injury and Illness Incident Report

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

This *Injury and Illness Incident Report* is one of the first forms you must fill out when a recordable work-related injury or illness has occurred. Together with the *Log of Work-Related Injuries and Illnesses* and the accompanying *Summary,* these forms help the employer and OSHA develop a picture of the extent and severity of work-related incidents.

Within 7 calendar days after you receive information that a recordable work-related injury or illness has occurred, you must fill out this form or an equivalent. Some state workers' compensation, insurance, or other reports may be acceptable substitutes. To be considered an equivalent form, any substitute must contain all the information asked for on this form.

According to Public Law 91-596 and 29 CFR 1904, OSHA's recordkeeping rule, you must keep this form on file for 5 years following the year to which it pertains.

If you need additional copies of this form, you may photocopy and use as many as you need.

Completed by _____

Title _____

Phone (_____)_____--_____ **Date** ____/ ____/ ____

Information about the employee

1) **Full name** _____

2) **Street** _____

City _____ **State** _____ **ZIP** _____

3) **Date of birth** _____ / _____ / _____

4) **Date hired** _____ / _____ / _____

5) ❒ **Male**
❒ **Female**

Information about the physician or other health care professional

6) **Name of physician or other health care professional** _____

_____

7) **If treatment was given away from the worksite, where was it given?**

Facility _____

Street _____

City _____ **State** _____ **ZIP** _____

8) **Was employee treated in an emergency room?**
❒ **Yes**
❒ **No**

9) **Was employee hospitalized overnight as an in-patient?**
❒ **Yes**
❒ **No**

Information about the case

10) **Case number from the *Log*** _____ *(Transfer the case number from the Log after you record the case.)*

11) **Date of injury or illness** _____ / _____ / _____

12) **Time employee began work** _____ **AM / PM**

13) **Time of event** _____ **AM / PM** ☐ **Check if time cannot be determined**

14) ***What was the employee doing just before the incident occurred?*** **Describe the activity, as well as the tools, equipment, or material the employee was using. Be specific.** ***Examples:*** **"climbing a ladder while carrying roofing materials"; "spraying chlorine from hand sprayer"; "daily computer key-entry."**

15) ***What happened?*** **Tell us how the injury occurred.** ***Examples:*** **"When ladder slipped on wet floor, worker fell 20 feet"; "Worker was sprayed with chlorine when gasket broke during replacement"; "Worker developed soreness in wrist over time."**

16) ***What was the injury or illness?*** **Tell us the part of the body that was affected and how it was affected; be more specific than "hurt," "pain," or sore."** ***Examples:*** **"strained back"; "chemical burn, hand"; "carpal tunnel syndrome."**

17) ***What object or substance directly harmed the employee?*** ***Examples:*** **"concrete floor"; "chlorine"; "radial arm saw."** ***If this question does not apply to the incident, leave it blank.***

18) ***If the employee died, when did death occur?*** **Date of death** _____ / _____ / _____

APPENDIX C

Geophysical Work Summary and Maps

DIVERSIFIED GEOPHYSICS, INC.

Subsurface Geophysical Investigations

75 East 2nd Street, Mineola, NY 11501
(516) 326.0586 voice (516) 616.6194 fax

14 February 2014

Mr. Jeffrey Wills, Project Hydrogeologist
Roux Associates
209 Shafter Street
Islandia, NY 11794

Re: **Site Geophysics –Former Getty Station** **VIA eMail**

Dear Mr. Wills:

On Friday, January 31st, 2014, Diversified Geophysics, Inc. (DGI) conducted a geophysical investigation on the property known as the Former Getty Station, located at 239 10th Avenue, in Manhattan, New York.

The purpose of this investigation will be to locate, trace and mark all documented and undocumented subsurface utilities as indicated on Roux Figure 3. Site Plan With Proposed Sampling Locations, which accompanied your email correspondence of January 28th, 2014

The geophysical investigation was comprised of a series of Ground Penetrating Radar (GPR) traverses and site-wide radio frequency/electromagnetic (RF/EM) scans. GPR surveys collect anomaly data which can be interpreted in real-time. The geometry of the anomalies located can assist in determining the type of subsurface object producing the anomaly. Linear anomalies can be interpreted to be buried utilities, conduits, trolley tracks, etc., if the return data has the appropriate signature. RF/EM scans are made by using instrumentation that has a transmitter and receiver. The transmitter can be used to send electromagnetic waves of known frequencies along buried metallic conduits housing utilities, or through the utilities themselves. The receiver is used to trace the signal (audibly and/or graphically) and locate the direction of travel, in some cases, the depth of the utility below the surface. Receivers can also be used in stand-alone mode to detect frequencies in the range of 60Hz, often emitted by active electrical services in the United States. In addition, some RF/EM instruments can detect frequencies emitted by gas and water services. These utilities absorb and radiate VLF radio waves. Both technologies, GPR and RF/EM complement one another to provide the most useful data set necessary for the locating, tracing and characterization of subsurface anomalies.

Ground Penetrating Radar (GPR) data was collected with Sensors and Software 250 MHz Noggin^{Plus} SmartCart®. The average penetration depth for this investigation was set from zero (0) to ten (10) feet. All utilities located were painted with the appropriate color on the concrete sidewalk.

During this investigation, Noggin^{Plus} GPR traverse lines were made in sets that ran parallel and perpendicular to the footprints of the individual areas of investigation (proposed boring locations), GPR scans represent anomalies graphically as hyperbolas, their crests indicating position and depth below the surface to the target. In general, when scanning for linear targets such as utilities, single-line scans are designed to traverse possible targets in directions perpendicular to the long-axis of the target. When a series of parallel scans detect anomalies at similar positions and depths, these results are interpreted to be evidence of a utility or conduit.

Single line GPR traverses in both the X and Y direction were collected throughout all accessible areas of the individual properties.

A radio frequency/electromagnetic (RF/EM) survey was conducted throughout the entire area of investigation. The receiver of a Ridgid® SeekTech (SR-60) Pipe and Cable Locator was used in a stand-alone mode (without the transmitter) to locate utilities emitting frequencies in the 60Hz range (active electric). The Ridgid® receiver was also used with a transmitter box (ST-33Q) in an attempt to trace water and drainage services.

DGI

DIVERSIFIED GEOPHYSICS, INC.

Subsurface Geophysical Investigations

75 East 2nd Street, Mineola, NY 11501
(516) 326.0586 voice (516) 616.6194 fax

Results:

All services to the former convenience store were located. Gas entered the property from 10th Avenue and terminated at the meter, located 18.25ft north of the SE corner of the improvement. Communications enter the property from 10th Avenue down the centerline of the sidewalk along the northern border of the property in the NE quadrant (positioned at a point 26.5ft north of the SE corner of the convenience store). Site lighting to the Getty sign and lamp located in the NE corner of the property runs north/south, parallel to the sidewalk along 10th Avenue (bordering the property to the east). It is located approximately 19.75ft east of the east exterior wall of the convenience store.

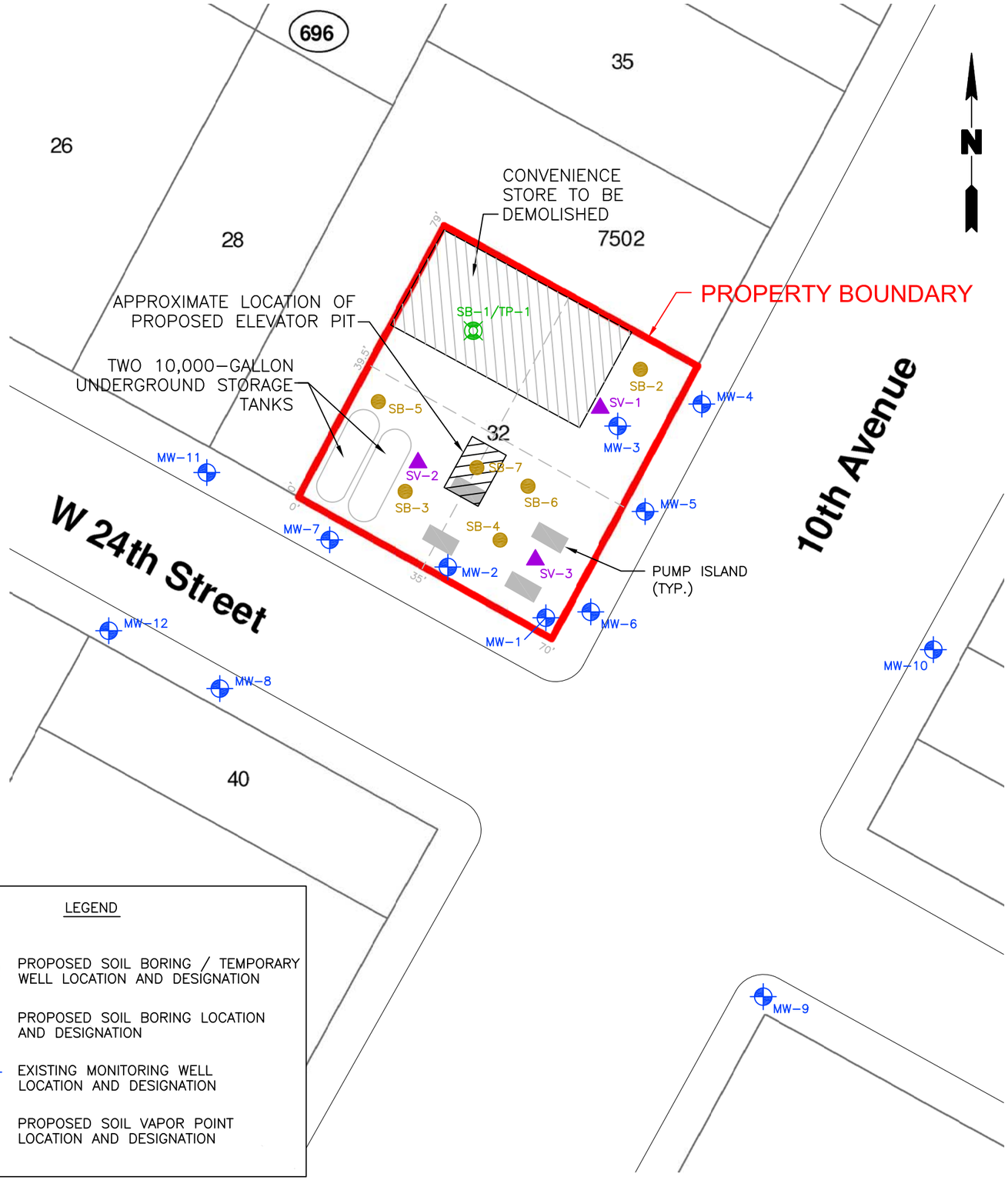
An unknown linear anomaly trends west/east from the east exterior wall of the store to 10th Avenue at a point 4ft north of the SE corner of the store.

Water, electric and sanitary sewer services entered/exited the property on West 24th Street, and were located to the west of the tank farm in the SW corner of the property. The water service position at the SW corner of the property is located approximately 8.5ft to the east of the adjacent building. At this location, the electric service is 5.25ft east of the adjacent building; the sewer service is 4.75ft east of the adjacent building. An unknown linear anomaly located using RF instrumentation and also indicated during GPR traverses is located at 3.5ft east of the adjacent building.

Electric supplies the NW fuel pump from the NW corner of the property. Electric was located traversing the fueling station between the individual northern and southern pumps. Additionally, electric was located traversing the property from north to south between canopy columns existing between the two western fuel dispensers and the two eastern fuel dispensers. No canopy drainage cleanouts could be accessed.

A linear anomaly was evidenced using both RF and GPR trending west/east, located approximately 6ft north of the northernmost fuel pumps (or 8.75ft south of the convenience store south sidewalk curb-line).

Andrew D. Silver
Vice President/Engineering Geologist
Diversified Geophysics, Inc.



LEGEND

- SB-1/TP-1 — PROPOSED SOIL BORING / TEMPORARY WELL LOCATION AND DESIGNATION
- SB-2 — PROPOSED SOIL BORING LOCATION AND DESIGNATION
- MW-1 — EXISTING MONITORING WELL LOCATION AND DESIGNATION
- SV-1 — PROPOSED SOIL VAPOR POINT LOCATION AND DESIGNATION

Title:

SITE PLAN WITH PROPOSED SAMPLING LOCATIONS

FORMER GETTY STATION
239 10TH AVENUE
NEW YORK, NEW YORK

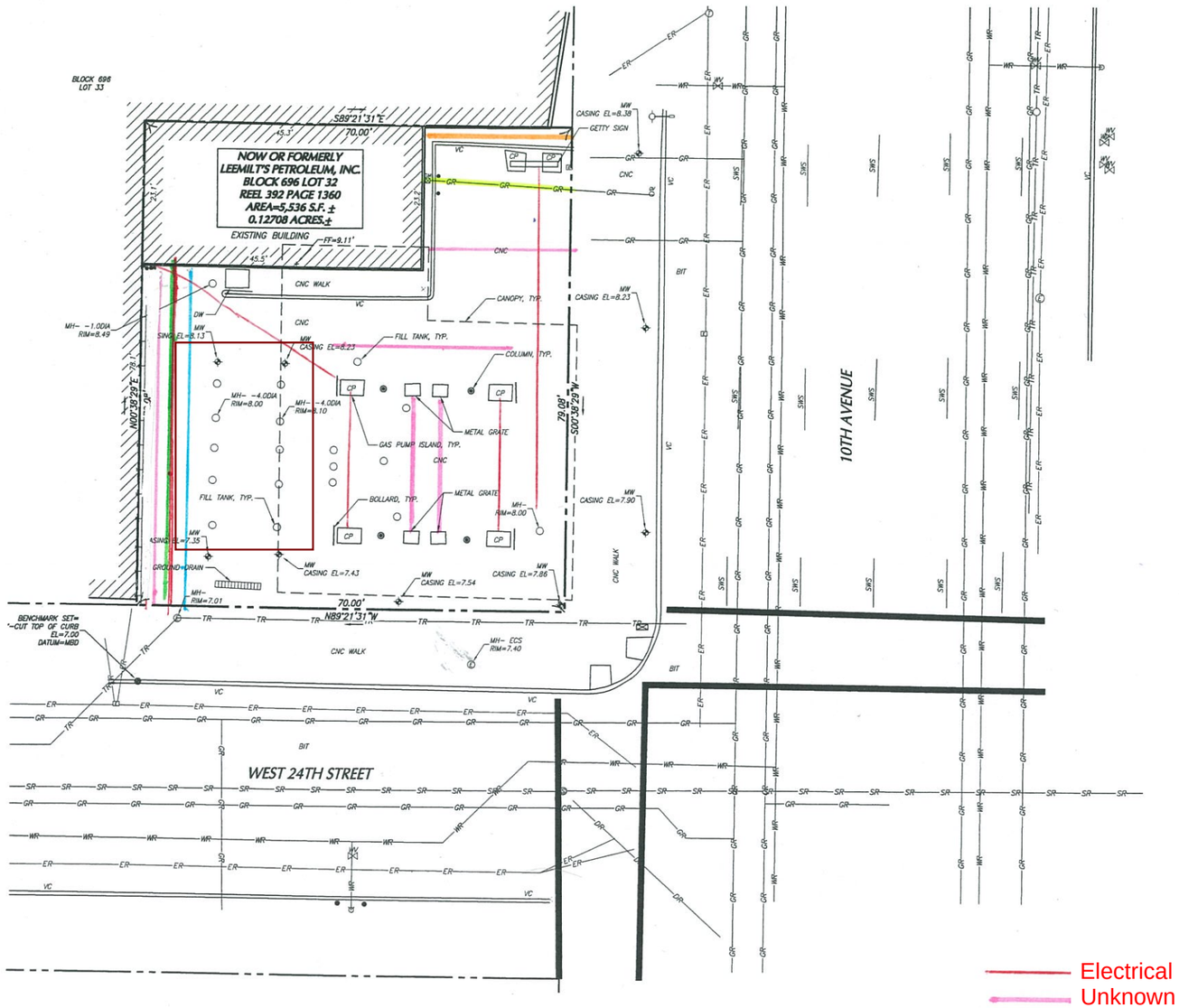
Prepared For:

VHS 239, LLC

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: W.S.	Date: 23JAN14	FIGURE
Prepared by: B.H.C.	Scale: NOT TO SCALE	3
Project Mgr: W.S.	Project: 2355.0001Y	
File: 2355.0001Y103.02.DWG		

V:\CAD\PROJECTS\2355Y\0001Y\103\2355.0001Y103.02.DWG



NOTES:

1. THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, DEED INFORMATION AND THE FOLLOWING REFERENCES:

   A. COMMITMENT FOR TITLE INSURANCE BY FIDELITY NATIONAL TITLE INSURANCE SEVICES, LLC. TITLE NO. 13-7405-66734NYM EFFECTIVE DATE APRIL 22, 2013. SCHEDULE B EXCEPTIONS:

      1-3. NOT SURVEY RELATED

      4. SURVEY PROVIDED

      5. INFORMATION DEPICTED ON SURVEY

      6. NOT SURVEY RELATED

      7. PARCEL SUBJECT TO TUNNEL EASEMENT PURSUANT TO ORDER FILED NOVEMBER 11, 2003 UNDER INDEX# 402901/03 AND RECORDED IN CRFN2003000520200. EASEMENT BLANKET IN NATURE. NOT PLOTTABLE.

      8-18. NOT SURVEY RELATED

   B. PLAN TITLED "245 TENTH AVENUE AS-BUILT SURVEY" BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC. DATED DECEMBER 12, 2012.

   C. PLAN TITLED "507 WEST 24TH STREET, BOUNDARY & TOPOGRAPHIC SURVEY" BY LANGAN ENGINEERING & ENVIRONMENTAL ASSOCIATES, DATED NOVEMBER 3, 2005 AND LAST REVISED MARCH 13, 2006.

   D. PLAN TITLED "NEW YORK CITY, DEPARTMENT OF TRANSPORTATION, BUILDERS PAVEMENT PLAN" BY LANGAN ENGINEERING & ENVIRONMENTAL ASSOCIATES, DATED AUGUST 2006, LAST REVISED FEBRUARY 2, 2009.

2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO MANHATTAN BOROUGH DATUM.

3. ELEVATIONS SHOWN ARE REFERENCE TO MANHATTAN BOROUGH DATUM.

4. STREET NAMES AND AND R.O.W WIDTHS, BLOCK, AND LOT NUMBERS AS PER CURRENT TAX MAPS.

5. PLANIMETRIC AND TOPOGRAPHIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, AND LANDSCAPE ARCHITECTURE, D.P.C. FIELD WORK COMPLETED DURING THE MONTH OF JULY 2013.

6. OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED IN CONSTRUCTION OF ANY TYPE.

7. WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.

8. AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM MAP TITLED CITY OF NEW YORK, NEW YORK PANEL NUMBER 182 OF 457, MAP NUMBER 3604970182F, EFFECTIVE DATE SEPTEMBER 5, 2007. THE ENTIRE PROPERTY FALLS WITHIN ZONE X SHADED, AREAS DETERMINED TO BE OF THE 0.2% ANNUAL CHANCE FLOOD.

9. ADDITIONAL UTILITY DATA IS SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.

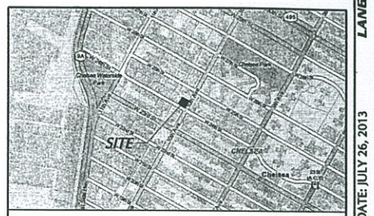
10. UNLESS SPECIFICALLY NOTED HEREON, THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.

11. PRIOR TO ANY DESIGN OR CONSTRUCTION, THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

12. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF N.Y STATE EDUCATION LAW ARTICLE 145.

13. THIS SURVEY IS NOT VALID WITHOUT THE EMBOSSED OR INKED SEAL OF THE PROFESSIONAL.

14. THIS SURVEY IS CERTIFIED TO STEWART TITLE INSURANCE COMPANY, BANK LEUMI USA, AND VHS 239, LLC.



PROJECT LOCATION MAP
NOT TO SCALE

Electrical
Unknown
Communications
Gas
Water
Sewer
USTs

LEGEND (NOT SHOWN TO SCALE)

HYDRANT	OVERHEAD WIRE	EP	EDGE OF PAVEMENT
STREET LIGHT	GUIDE RAIL WOOD	SWS	SINGLE WHITE STRIPE
AREA LIGHT	GUIDE RAIL METAL	DYS	DOUBLE YELLOW STRIPE
SIGNAL POLE	TREE LINE	VC	VERTICAL CONCRETE CURB
POLE	CHAINLINK FENCE	SC	STONE CURB
ANCHOR POLE	STOCKADE FENCE	GC	GRANITE CURB
MANHOLE (TYPE AS LABELED)	IRON FENCE	DW	DETECTABLE WARNING
WATER VALVE	EASEMENT LINE	EW	EDGE OF WALK
GAS VALVE	PROPERTY LINE	BIT	BITUMINOUS
UNKNOWN VALVE	RIGHT-OF-WAY LINE	CNC	CONCRETE
CATCH BASIN	CONTOUR LINE	ENC	ENCROACHES
SPOT ELEVATION	GAS MARK OUT LINE	CLR	CLEARS
CLEAN OUT	WATER MARK OUT LINE	WD	WOOD
TREE	ELECTRIC MARK OUT LINE	CP	CONCRETE PAD
SIGN	COMMUNICATION MARK OUT LINE	LSA	LANDSCAPED AREA
BOLLARD	SANITARY MARK OUT LINE		
TRANSFORMER	DRAINAGE MARK OUT LINE		
MONITOR WELL	REFERENCE UTILITY LINE (TYPE AS NOTED) - PLOTTED FROM EXISTING MAPPING		

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

10 0 2 4 10
SCALE IN FEET

STATE OF NEW YORK
ANDREW G. IVES
LICENSED LAND SURVEYOR
050794

Date	Description	No.
REVISIONS		

" I HEREBY STATE THAT THIS PLAN IS BASED ON A FIELD SURVEY MADE BY ME OR UNDER MY IMMEDIATE SUPERVISION IN ACCORDANCE WITH NYSPLS CODE OF PRACTICE FOR LAND SURVEYS, AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, AND IN MY PROFESSIONAL OPINION, CORRECTLY REPRESENTS THE CONDITIONS FOUND ON THE DATE OF THE FIELD SURVEY AT THE SUBJECT PROPERTY"

7/26/13
ANDREW G. IVES — DATE SIGNED
PROFESSIONAL LAND SURVEYOR
NEW YORK LIC. No. 50794

LANGAN
555 Long Wharf Drive, New Haven, CT 06511
T: 203.562.5771 F: 203.789.6142 www.langan.com
NEW JERSEY NEW YORK VIRGINIA CALIFORNIA PENNSYLVANIA CONNECTICUT FLORIDA ABU DHABI ATHENS DOHA DUBAI ISTANBUL
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
239 TENTH AVENUE
CITY OF NEW YORK
BOROUGH OF MANHATTAN
NEW YORK COUNTY — NEW YORK

Drawing Title
BOUNDARY SURVEY

Project No. 100401301	Drawing No. VB101 0101
Date 7/26/13	
Scale 1"=10'	
Drawn By AMC	
Checked By AGI	Sheet 1 of 1

LANGAN
SUBMISSION DATE: JULY 26, 2013
PROJECT No. 100401301

Filename: \\langan.com\data\NH-fsdata3\100401301\Survey Data - 100401301Civil 3D\Existing\100401301-V-EX-101.dwg Date: 7/26/2013 Time: 14:25 User: alves Style Table: Langan.stb Layout: VB-101

DIVERSIFIED GEOPHYSICS, INC.
Subsurface Geophysical Investigations
75 East 2nd Street, Mineola, NY 11501
(516) 326.0586 voice (516) 616.6194 fax

PHOTOGRAPHS

DIVERSIFIED GEOPHYSICS, INC.

Subsurface Geophysical Investigations

75 East 2nd Street, Mineola, NY 11501

(516) 326.0586 voice (516) 616.6194 fax

Photo 1. NW Corner Showing UST Vents And Service Entry (Electric; Water; Sewer)

Photo 2. NW Corner Showing UST Vents And Service Entry (Electric; Water; Sewer)

Photo 3. View SW Showing Utility Run

Photo 4. SW Corner Of Property

Photo 5. Electric Between Pumps And Linear Anomalies

Photo 6. View East Between North/South Pump Islands

DGI

DIVERSIFIED GEOPHYSICS, INC.

Subsurface Geophysical Investigations

75 East 2nd Street, Mineola, NY 11501
(516) 326.0586 voice (516) 616.6194 fax

Photo 7. View Of Electric To NW Fuel Dispenser

Photo 8. Gas And Communications Service Entry

Photo 9. Unknown Anomaly At SW Corner Of Store

Photo 10. View West Showing Electric Between Pump Islands

APPENDIX D

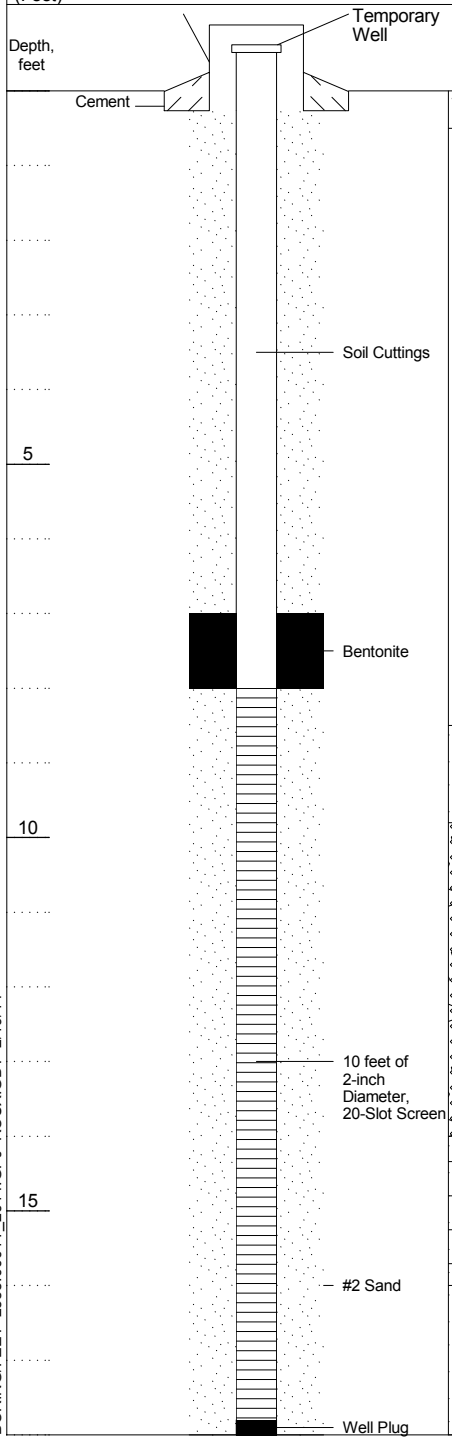
Soil Boring Geologic Logs

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

WELL CONSTRUCTION LOG

WELL NO. **SB-1/TP-1**	NORTHING **Not Measured**	EASTING **Not Measured**		
PROJECT NO./NAME **2355.0001Y000 / 239 10th Avenue**		LOCATION **239 10th Avenue** **New York, New York**		
APPROVED BY **W. Shen**	LOGGED BY **J. Wills**			
DRILLING CONTRACTOR/DRILLER **Aquifer Drilling and Testing / Chris Iodice**		GEOGRAPHIC AREA **In front of convienence building entrance, on concrete walkway**		
DRILL BIT DIAMETER/TYPE **3-in. / Drive Sampler**	BOREHOLE DIAMETER **3-inches**	DRILLING EQUIPMENT/METHOD **6620 DT / Geoprobe**	SAMPLING METHOD **2" Macro-Core**	START-FINISH DATE **2/6/14-2/7/14**
CASING MAT./DIA. **PVC / 2-inch**	SCREEN: TYPE **Slotted** MAT. **PVC** TOTAL LENGTH **10.0**ft DIA. **2-inch** SLOT SIZE **20-Slot**			
ELEVATION OF: (Feet) GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN **/**	GRAVEL PACK SIZES **#2**	



Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced CONCRETE			Hand cleared to 6 feet bls.
		FILL (Dark brown, fine to coarse SAND and GRAVEL, trace brick and silt; moist)		0.4	Sample SB-1 (0-2) collected for TCL VOCs/SVOCs/Pesticides, TAL Metals and PCBs.
				0.6	WC-1C (0-6) collected forTotal SVOCs, Total Pesticides, PCBs, TCLP SVOCs/Pesticides/Herbicides, TAL Metals, Cr, Hg,TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization.
			G	0.4	Sample WC-1G (0-6) collected for Total/TCLP VOCs and EPH.
				0.2	Sample WC-1T (2-3) collected for TPH-GRO/DRO.
5					Sample WC-1T (3-4) collected for TPH-GRO/DRO. 5
					Sample WC-1T (4-5) collected for TPH-GRO/DRO.
		FILL (Dark brown, fine to coarse SAND and GRAVEL, little Brick and Silt; very moist)		0.8	Sample WC-1T (6-8) collected for TPH-GRO/DRO.
				0.7	WC-1C (6-18) collected forTotal SVOCs, Total Pesticides, PCBs, TCLP SVOCs/Pesticides/Herbicides, TAL Metals, Cr, Hg,TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization.
		Brown, fine to medium SAND, trace coarse sand and gravel; wet			Sample WC-1G (6-18) collected for Total/TCLP VOCs and EPH.
					Sample WC-1T (8-10) collected for TPH-GRO/DRO.
10		Dark grey (stained), fine to coarse SAND, little Gravel and Silt; wet		276	10
				750	Sample WC-1T (10-12) collected for TPH-GRO/DRO.
				910	Sample WC-1T (12-14) collected for TPH-GRO/DRO.
		Brown, fine to medium SAND, little Silt; wet		57.6	Sample WC-1T (14-16) collected for TPH-GRO/DRO.
15				58	15
		Dark brown, fine to medium SAND, trace silt; wet		100	Sample WC-1T (16-18) collected for TPH-GRO/DRO.

BORING/FEET 2355.0001Y_2014.GPJ ROUX.GDT 2/19/14

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

WELL CONSTRUCTION LOG

WELL NO.	NORTHING	EASTING
SB-1/TP-1	**Not Measured**	**Not Measured**

PROJECT NO./NAME	LOCATION
2355.0001Y000 / 239 10th Avenue	**239 10th Avenue**
APPROVED BY: **W. Shen** / LOGGED BY: **J. Wills**	**New York, New York**

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Dark brown, fine to medium SAND, little Silt; wet		18.7	Sample WC-1T (18-20) collected for TPH-GRO/DRO. WC-1C (18-30) collected forTotal SVOCs, Total Pesticides, PCBs, TCLP SVOCs/Pesticides/Herbicides, TAL Metals, Cr, Hg,TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization. Sample WC-1G (18-30) collected for Total/TCLP VOCs and EPH. Sample WC-1T (20-22) collected for TPH-GRO/DRO.
20				30	
				35.9	Sample WC-1T (22-24) collected for TPH-GRO/DRO.
				6.5	Sample WC-1T (24-26) collected for TPH-GRO/DRO.
25		Dark brown, fine to medium SAND, trace silt and gravel; wet		2.1	
				4.0	Sample WC-1T (26-28) collected for TPH-GRO/DRO.
		Dark brown, fine to medium SAND, trace silt; wet		0.7	Sample WC-1T (28-30) collected for TPH-GRO/DRO.
30				0.5	Sample SB-1 (30-32) collected for TCL VOCs, TCL SVOCs and TAL Metals.
					Bottom of boring at 32 feet bls.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-2	**Not Measured**	**Not Measured**		
PROJECT NO./NAME		LOCATION		
2355.0001Y000 / 239 10th Avenue		**239 10th Avenue**		
APPROVED BY	LOGGED BY	**New York, New York**		
W. Shen	**J. Wills**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Aquifer Drilling and Testing / Chris Iodice		**~14 feet NW of property boundary at 10th Ave**		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 DT / Geoprobe**	**2" Macro-Core**	**2/6/14-2/7/14**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Cuttings/Bentonite**		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced CONCRETE			Hand cleared to 5 feet bls. Sample SB-2 (0-2) collected for TCL VOCs, TCL SVOCs, TCL Pesticides, TAL Metals and PCBs. Sample WC-2C (0-6) collected for Total SVOCs, Total Pesticides, PCBs, TCLP SVOCs, TCLP Pesticides, TCLP Herbicides, TAL Metals, Cr, Hg, TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization. Sample WC-2G (0-6) collected for Total/TCLP VOCs and EPH. Sample WC-2T (2-3) collected for TPH GRO/DRO. Sample WC-2T (3-4) collected for TPH GRO/DRO. Sample WC-2T (4-5) collected for TPH GRO/DRO. 3.5 feet recovery.
		FILL (Brown, fine to medium SAND and GRAVEL, little Concrete Cobble, Silt and Brick; moist)		0.2	
				0.1	
				0.3	
				0.4	
5					5
		FILL (Dark brown, fine to coarse SAND and GRAVEL, little Brick and Silt; moist-wet)		0.4	
				1.0	WC-2T (6-8) collected for TPH GRO/DRO. Sample WC-2C (6-18) collected for Total SVOCs, Total Pesticides, PCBs, TCLP SVOCs, TCLP Pesticides, TCLP Herbicides, TAL Metals, Cr, Hg, TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization. Sample WC-2G (6-18) collected for Total/TCLP VOCs and EPH. Sample WC-2T (8-10) collected for TPH GRO/DRO.
10					10
		Black (stained), fine SAND, some Silt, little coarse Sand, trace gravel; wet		107.3	3 feet recovery. Sample WC-2T (10-12) collected for TPH GRO/DRO.
		Dark brown, fine SAND, little medium Sand, trace gravel and silt; wet		376	Sample WC-2T (12-14) collected for TPH GRO/DRO.
					Sample WC-2T (14-16) collected for TPH GRO/DRO.
15					15
		Dark brown, fine to medium SAND, trace silt and gravel; wet		62	4.7 feet recovery.

BORING/FEET 2355.0001Y_2014.GPJ ROUX.GDT 2/27/14

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

SOIL BORING LOG

WELL NO.	NORTHING	EASTING
SB-2	**Not Measured**	**Not Measured**
PROJECT NO./NAME		LOCATION
2355.0001Y000 / 239 10th Avenue		**239 10th Avenue**
APPROVED BY	LOGGED BY	**New York, New York**
W. Shen	**J. Wills**	

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Dark brown, fine to medium SAND, trace silt; wet		131	Sample WC-2T (16-18) collected for TPH GRO/DRO.
				20	Sample WC-2T (18-20) collected for TPH GRO/DRO. Sample WC-2C (18-30) collected for Total SVOCs, Total Pesticides, PCBs, TCLP SVOCs, TCLP Pesticides, TCLP Herbicides, TAL Metals, Cr, Hg, TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization. Sample WC-2G (18-30) collected for Total/TCLP VOCs and EPH. 4.5 feet recovery. Sample WC-2T (20-22) collected for TPH GRO/DRO.
20				20.2	20
				3.1	Sample WC-2T (22-24) collected for TPH GRO/DRO.
				0.2	Sample WC-2T (24-26) collected for TPH GRO/DRO.
25					25
		Dark brown, fine to medium SAND, little coarse Sand, trace gravel and silt; wet		0.6	Sample WC-2T (26-28) collected for TPH GRO/DRO.
		Brown to reddish brown, fine SAND and SILT; wet		0.2	Sample WC-2T (28-30) collected for TPH GRO/DRO.
30					30
				0.2	Sample SB-2 (30-32) collected for TCL VOCs, TCL SVOCs and TAL Metals.
					Bottom of boring at 32 feet bls.

BORING/FEET 2355.0001Y_2014.GPJ ROUX.GDT 2/27/14

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-3	**Not Measured**	**Not Measured**		
PROJECT NO./NAME		LOCATION		
2355.0001Y000 / 239 10th Avenue		**239 10th Avenue**		
APPROVED BY	LOGGED BY	**New York, New York**		
W. Shen	**J. Wills**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Aquifer Drilling and Testing / Chris Iodice		**~23 NE of property boundary at W24th St**		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 DT / Geoprobe**	**2" Macro-Core**	**2/4/14-2/7/14**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Cuttings/Bentonite**		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced CONCRETE			Hand cleared to 5 feet bls.
		FILL (PEA GRAVEL; moist)		0.0	
				0.4	
				0.3	
				0.1	
5				1.0	3.5 feet recovery.
		FILL (Dark brown, fine to coarse SAND and GRAVEL, little Brick and Silt; moist)		3.5	Sample WC-3T (7-8) collected for TPH GRO/DRO. Sample WC-3C (7-18) collected for Total SVOCs, Total Pesticides, PCBs, TCLP SVOCs, TCLP Pesticides, TCLP Herbicides, TAL Metals, Cr, Hg, TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization. Sample WC-3G (7-18) collected for Total/TCLP VOCs and EPH.
		FILL (Black (stained), fine to coarse SAND and GRAVEL, little Silt, trace brick; wet		1018	
10				1095	Sample WC-3T (8-10) collected for TPH GRO/DRO. 3.7 feet recovery. Sample WC-3T (10-12) collected for TPH GRO/DRO.
					Sample WC-3T (12-14) collected for TPH GRO/DRO.
		Dark grey, fine to medium SAND, little Gravel, coarse Sand and Silt; wet		210	
					Sample WC-3T (14-16) collected for TPH GRO/DRO.
15				192	

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING
SB-3	**Not Measured**	**Not Measured**

PROJECT NO./NAME	LOCATION
2355.0001Y000 / 239 10th Avenue	**239 10th Avenue**

APPROVED BY	LOGGED BY	
W. Shen	**J. Wills**	**New York, New York**

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Dark brown to dark grey, fine to medium SAND, trace silt; wet		32.7	Sample WC-3T (16-18) collected for TPH GRO/DRO.
		Dark brown, fine to medium SAND, little Silt, trace gravel; wet		21	Sample WC-3T (18-20) collected for TPH GRO/DRO. Sample WC-3C (18-30) collected for Total SVOCs, Total Pesticides, PCBs, TCLP SVOCs, TCLP Pesticides, TCLP Herbicides, TAL Metals, Cr, Hg, TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization. Sample WC-3G (18-30) collected for Total/TCLP VOCs and EPH.
20		Dark brown, fine to medium SAND, little Silt; wet		15	20
				6.7	4.8 feet recovery. Sample WC-3T (20-22) collected for TPH GRO/DRO.
					Sample WC-3T (22-24) collected for TPH GRO/DRO.
				4.7	
					Sample WC-3T (24-26) collected for TPH GRO/DRO.
25					25
				0.2	4 feet recovery.
					Sample WC-3T (26-28) collected for TPH GRO/DRO.
				0.1	
					Sample WC-3T (28-30) collected for TPH GRO/DRO.
30					30
				0.1	2 feet recovery. Sample SB-3 (30-32) collected for TCL VOCs, TCL SVOCs and TAL Metals.
					Bottom of boring at 32 feet bls.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING
SB-4	**Not Measured**	**Not Measured**

PROJECT NO./NAME	LOCATION
2355.0001Y000 / 239 10th Avenue	**239 10th Avenue**
APPROVED BY: **W. Shen** / LOGGED BY: **J. Wills**	**New York, New York**
DRILLING CONTRACTOR/DRILLER: **Aquifer Drilling and Testing / Chris Iodice**	GEOGRAPHIC AREA: **~20 feet WNW of property boundary at 10th Ave**

DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 DT / Geoprobe**	**2" Macro-Core**	**2/4/14-2/10/14**

LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL
Not Measured	**Not Measured**	**Cuttings/Bentonite**

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced CONCRETE			Hand cleared to 6 feet bls. Sample SW-4 (0-2) collected for TCL VOCs/SVOC/Pesticides, TAL Metals and PCBs. Sample WC-4C (0-6) collected for Total SVOCs, Total Pesticides, PCBs, TCLP SVOCs, TCLP Pesticides, TCLP Herbicides, TAL Metals, Cr, Hg, TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization. Sample WC-4G (0-6) collected for Total/TCLP VOCs and EPH. Sample WC-4T (2-3) collected for TPH GRO/DRO. Sample WC-4T (3-4) collected for TPH GRO/DRO. Sample WC-4T (4-5) collected for TPH GRO/DRO.
		FILL (Brown to dark brown, fine to coarse SAND, some Gravel, little Brick, trace silt; moist)		0.2	
				0.1	
			G		
				0.0	
5				4.7	5
				10.8	Sample SW-4 (6-8.5) collected for TCL VOCs/SVOC/Pesticides, TAL Metals and PCBs. Sample WC-4T (6-8) collected for TPH GRO/DRO. Sample WC-4C (6-18) collected for Total SVOCs, Total Pesticides, PCBs, TCLP SVOCs, TCLP Pesticides, TCLP Herbicides, TAL Metals, Cr, Hg, TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization. Sample WC-4G (6-18) collected for Total/TCLP VOCs and EPH.
		FILL (black (stained), fine to coarse SAND, some Gravel, little Brick, trace silt; very moist)		47	
		CONCRETE			
10					10
		Grey, fine to coarse SAND, little Gravel and Silt; wet		1400	Sample WC-4T (11-12) collected for TPH GRO/DRO.
		Dark brown, fine to medium SAND, trace silt; wet		315	Sample WC-4T (12-14) collected for TPH GRO/DRO.
					Sample WC-4T (14-16) collected for TPH GRO/DRO.
15				436	15

BORING/FEET 2355.0001Y_2014.GPJ ROUX.GDT 2/19/14

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING
SB-4	**Not Measured**	**Not Measured**
PROJECT NO./NAME		LOCATION
2355.0001Y000 / 239 10th Avenue		**239 10th Avenue**
APPROVED BY	LOGGED BY	**New York, New York**
W. Shen	**J. Wills**	

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Dark brown, fine to medium SAND, trace silt; wet *(continued)*		136	Sample WC-4T (16-18) collected for TPH GRO/DRO.
				190	Sample WC-4T (18-20) collected for TPH GRO/DRO. Sample WC-4C (18-30) collected for Total SVOCs, Total Pesticides, PCBs, TCLP SVOCs, TCLP Pesticides, TCLP Herbicides, TAL Metals, Cr, Hg, TCLP Metals RCRA + CU, Ni, Zn, and Waste Characterization. WC-4G (18-30) collected for Total/TCLP VOCs and EPH. Sample WC-4T (20-22) collected for TPH GRO/DRO.
20					20
		Dark brown, fine to medium SAND, trace coarse sand; wet		66	
				5.2	Sample WC-4T (22-24) collected for TPH GRO/DRO.
				0.8	Sample WC-4T (24-26) collected for TPH GRO/DRO.
25					25
				0.5	
					Sample WC-4T (26-28) collected for TPH GRO/DRO.
				0.4	
					Sample WC-4T (28-30) collected for TPH GRO/DRO.
				0.4	
30					30
				0.3	Sample SB-4 (30-32) collected for TCL VOCs, TCL SVOCs and TAL Metals.
					Bottom of boring at 32 feet bls.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-5	**Not Measured**	**Not Measured**		
PROJECT NO./NAME		LOCATION		
2355.0001Y000 / 239 10th Avenue		**239 10th Avenue**		
APPROVED BY	LOGGED BY	**New York, New York**		
W. Shen	**J. Wills**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Aquifer Drilling and Testing / Chris Iodice		**~14 feet ESE of Adjacent property building**		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 DT / Geoprobe**	**2" Macro-Core**	**2/4/14-2/6/14**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Cuttings/Bentonite**		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced CONCRETE			Hand cleared to 5 feet bls.
		FILL (PEA GRAVEL; moist)			
				0.0	
5				0.2	2.5 feet recovery.
		FILL (Dark brown, fine to coarse SAND, some Gravel, little silt, trace brick; moist to wet)		2.1	Sample SB-5 (7-10) collected for TCL VOCs, TCL SVOCs, TCL Pesticides, TAL Metals and PCBs.
10		FILL (PEA GRAVEL; wet)		1.2	3.5 feet recovery.
		Grey, fine to coarse SAND and Gravel, little Silt; wet		7.2	
15		Dark grey to black, fine to coarse SAND and GRAVEL, little Silt; wet		26.4	3.5 feet recovery.
		Brown to dark brown, fine to medium SAND, trace silt; wet		9.5	
20				1.3	4 feet recovery.
		Brown to dark brown, fine to medium SAND, little Silt, trace gravel; wet		0.2	
25				0.1	4.5 feet recovery.
				0.1	
				0.1	
30				0.1	2 feet recovery. Sample SB-5 (30-32) collected for TCL VOCs, TCL SVOCs and TAL Metals. Bottom of boring at 32 feet bls.

BORING/FEET 2355.0001Y_2014.GPJ ROUX.GDT 2/27/14

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING
SB-6	**Not Measured**	**Not Measured**

PROJECT NO./NAME	LOCATION
2355.0001Y000 / 239 10th Avenue	**239 10th Avenue, New York, New York**

APPROVED BY	LOGGED BY
W. Shen	**J. Wills**

DRILLING CONTRACTOR/DRILLER	GEOGRAPHIC AREA
Aquifer Drilling and Testing / Chris Iodice	**~12 feet NE of SB-4**

DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 DT / Geoprobe**	**2" Macro-Core**	**2/4/14-2/10/14**

LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL
Not Measured	**Not Measured**	**Cuttings/Bentonite**

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced CONCRETE			Hand cleared to 5 feet bls.
		FILL (Dark brown, fine ot coarse SAND, some Gravel; moist)		0.2	Sample SB-6 (0-2) collected for TCL VOCs, TCL SVOCs, TCL Pesticides, TAL Metals and PCBs.
				0.2 (G)	
				0.2	
5		FILL (Dark brown, fine to coarse SAND, some Gravel, little Brick and Silt; moist)		2.2	4 feet recovery.
				57.8	Sample SB-6 (7-10) collected for TCL VOCs, TCL SVOCs, TCL Pesticides, TAL Metals and PCBs.
		FILL (Dark brown, fine to coarse SAND, some Gravel, little Brick and Silt; wet)		864	
10		Black (stained), fine to coarse SAND and GRAVEL, trace silt; wet		687	3.5 feet recovery.
		Black (stained), fine to medium SAND, little Silt, trace gravel; wet		1280	
15		Dark brown, fine to medium SAND, little Silt; wet		995	
		Dark brown, fine to medium SAND, trace silt; wet		180	3.8 feet recovery.
		Dark brown, fine to medium SAND, trace silt and gravel; wet		71	
20		Dark brown, fine SAND, little medium Sand, trace silt; wet		15	3 feet recovery.
		Dark brown, fine to medium SAND, little Silt; wet		0.5	
25		Brown to dark brown, fine to medium SAND, little Silt; wet		0.3	4 feet recovery.
				0.2	
30				0.2	2 feet recovery. Sample SB-6 (30-32) collected for TCL VOCs, TCL SVOCs and TAL Metals. Bottom of boring at 32 feet bls.

BORING/FEET 2355.0001Y_2014.GPJ ROUX.GDT 2/19/14

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-7	**Not Measured**	**Not Measured**		
PROJECT NO./NAME		LOCATION		
2355.0001Y000 / 239 10th Avenue		**239 10th Avenue**		
APPROVED BY	LOGGED BY	**New York, New York**		
W. Shen	**J. Wills**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Aquifer Drilling and Testing / Chris Iodice		**~15 feet ENE of SB-6**		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 DT / Geoprobe**	**2" Macro-Core**	**2/4/14-2/10/14**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Cuttings/Bentonite**		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced CONCRETE		0.4	Hand cleared to 5 feet bls.
		FILL (Dark brown, fine to coarse SAND, some Gravel, trace silt; moist)		0.5 (G)	
		FILL (PEA GRAVEL; moist)		1.2	
		FILL (PEA GRAVEL, little fine to medium Sand; moist)		1.1	
5		FILL (Dark brown, fine to coarse SAND and GRAVEL, little Brick and Silt; moist to wet		0.8	4 feet recovery.
				43	
10		FILL (Black (stained), fine to coarse SAND and GRAVEL, little Brick and Silt; wet		1275	3.7 feet recovery.
		Black (stained), fine to medium SAND, little coarse Sand and Silt, trace gravel; wet			
		Dark brown, fine to medium SAND, little Silt; wet		270	
15				40.8	4 feet recovery.
				53	
20		Dark brown, fine to medium SAND, trace silt; wet		6.3	3.8 feet recovery.
25		Brown, fine SAND, little medium Sand and Silt; wet		0.4	
				2.1	4 feet recovery.
				0.7	
30		Brown, fine to medium SAND. trace gravel; wet		0.5	4.2 feet recovery.
				0.3	
35				0.2	3 feet recovery.
					Sample SB-7 (36-38) collected for TCL VOCs, TCL SVOCs and TAL Metals.

BORING/FEET 2355.0001Y_2014.GPJ ROUX.GDT 2/19/14

APPENDIX E

Sampling Logs

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: SB-1/TP-1 Weather: Mid 20˚F, Clear, Breezy, Feels like teens

Date: 2/7/2014 Purge Water Disposal: 55-gallon Drum

Sampled By: JG Well Diameter / Type: 2 in / PVC

Depth of Well (ft): 18.00 Water Column (ft): 7.74

Depth to Water(ft): 10.26 Volume of Water in Well (gal) 1.67

Depth to Product (ft): n/a Volume of Water to Remove (gal): n/a

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 14:45 Purge Rate (mL/min): ~200

End Purging: 15:28 Volume of Water Removed (gal): 1.5

Method of Purge: peristaltic pump Method of Sampling: low flow

Physical Appearance/ Comments: Clear with slight sheen and odor

Samples Collected: (analyses / no. bottles) TCL VOCs; 3 - 40mL voas with HCL, TCL SVOCs; 2 - 1L Ambers, PCBs; 2 - 1L Ambers TCL Pesticides; 2 - 500mL Ambers, TAL Metals (total & filtered); 2 - 500 mL plastic with HNO3 (filtered)

Sample Time: 13:25 Laboratory : Alpha Analytical, MA

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
14:47	10.41	200	-145	3.79	231	8.77	13.15	7.99
14:50	10.41	200	-171	3.82	825	9.33	13.40	13.96
14:53	10.41	200	-175	3.78	21	9.54	14.25	2-.13
14:58	10.41	200	-198	3.46	660	9.30	15.00	13.16
15:03	10.41	200	-180	3.26	424	8.82	15.31	12.09
15:08	10.41	200	-157	3.29	330	8.47	15.36	5.78
15:13	10.41	200	-144	3.27	261	8.33	15.00	5.67
15:18	10.41	200	-139	3.28	255	8.34	14.43	5.71
15:23	10.41	200	-124	3.30	229	8.22	14.08	6.04
15:28	10.41	200	-126	3.42	266	8.26	14.05	6.01

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-2 Weather: Mid 20˚F, Clear, Breezy, Feels like teens

Date: 2/7/2014 Purge Water Disposal: 55-gallon Drum

Sampled By: JG Well Diameter / Type: 2 in / PVC

Depth of Well (ft): 22.00 Water Column (ft): 14.87

Depth to Water(ft): 7.13 Volume of Water in Well (gal) 1.16

Depth to Product (ft): n/a Volume of Water to Remove (gal): n/a

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 11:18 Purge Rate (mL/min): ~250

End Purging: 11:42 Volume of Water Removed (gal): 2

Method of Purge: peristaltic pump Method of Sampling: low flow

Physical Appearance/ Comments: Clear

Samples Collected: (analyses / no. bottles) TCL VOCs; 3 - 40mL voas with HCL, TCL SVOCs; 2 - 1L Ambers, PCBs; 2 - 1L Ambers; TCL Pesticides; 2 - 500mL Ambers, TAL Metals (total & filtered); 2 - 500 mL plastic with HNO3 (filtered)

Sample Time: 11:45 Laboratory : Alpha Analytical, MA

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
11:21	7.27	250	-36	5.46	25.0	8.12	9.13	3.16
11:24	7.27	250	-41	5.43	15.9	8.09	9.03	2.39
11:27	7.27	250	-42	5.41	16.7	8.09	8.99	2.03
11:32	7.27	250	-42	5.43	16.3	7.96	9.01	2.12
11:37	7.27	250	-44	5.32	15.1	7.93	9.04	2.19
11:42	7.27	250	-49	5.33	13.9	7.93	9.10	2.22

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-3 Weather: Mid 20˚F, Clear, Breezy, Feels like teens

Date: 2/7/2014 Purge Water Disposal: 55-gallon Drum

Sampled By: JG Well Diameter / Type: 4 in / PVC

Depth of Well (ft): 17.95 Water Column (ft): 9.13

Depth to Water(ft): 8.82 Volume of Water in Well (gal) 5.76

Depth to Product (ft): n/a Volume of Water to Remove (gal): n/a

well diameter:	1 in	2 in	**4 in**	6 in	8 in
gallons per foot:	0.041	0.163	**0.653**	1.469	2.611

Start Purging: 13:46 Purge Rate (mL/min): ~200

End Purging: 14:15 Volume of Water Removed (gal): 1.5

Method of Purge: peristaltic pump Method of Sampling: low flow

Physical Appearance/ Comments: Slight grey tint with odor

Samples Collected: (analyses / no. bottles) TCL VOCs; 3 - 40mL voas with HCL, TCL SVOCs; 2 - 1L Ambers, PCBs; 2 - 1L Ambers TCL Pesticides; 2 - 500mL Ambers, TAL Metals (total & filtered); 2 - 500 mL plastic with HNO3 (filtered)

Sample Time: 14:20 Laboratory : Alpha Analytical, MA

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
13:49	8.84	200	-121	4.19	24.8	8.19	11.01	14.67
13:52	8.84	200	-115	4.10	15.8	8.15	11.03	14.17
13:55	8.84	200	-110	4.08	10.8	8.11	11.06	13.12
14:00	8.84	200	-109	4.08	9.8	8.10	11.13	6.60
14:05	8.84	200	-115	4.08	5.1	8.23	11.17	3.83
14:10	8.84	200	-114	4.07	8.5	8.23	11.17	3.27
14:15	8.84	200	-112	4.06	5.7	8.24	11.13	3.23

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-5 Weather: Mid 20˚F, Clear, Breezy, Feels like teens

Date: 2/7/2014 Purge Water Disposal: 55-gallon Drum

Sampled By: JG Well Diameter / Type: 2 in / PVC

Depth of Well (ft): 16.80 Water Column (ft): 8.39

Depth to Water(ft): 8.41 Volume of Water in Well (gal) 1.37

Depth to Product (ft): n/a Volume of Water to Remove (gal): n/a

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 12:49 Purge Rate (mL/min): ~200

End Purging: 13:13 Volume of Water Removed (gal): 1.5

Method of Purge: peristaltic pump Method of Sampling: low flow

Physical Appearance/ Comments: Clear

Samples Collected: (analyses / no. bottles) TCL VOCs; 3 - 40mL voas with HCL, TCL SVOCs; 2 - 1L Ambers, PCBs; 2 - 1L Ambers; TCL Pesticides; 2 - 500mL Ambers, TAL Metals (total & filtered); 2 - 500 mL plastic with HNO3 (filtered)

Sample Time: 13:15 Laboratory : Alpha Analytical, MA

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
12:52	9.25	200	-93	3.98	61.3	7.72	6.82	16.10
12:55	9.25	200	-101	3.93	39.0	7.61	6.75	7.06
12:58	9.25	200	-104	3.89	46.3	7.53	7.26	5.84
13:03	9.25	200	-109	3.82	58.4	7.49	7.82	6.14
13:08	9.25	200	-111	3.80	97.4	7.53	8.28	6.38
13:13	9.25	200	-113	3.75	125.0	7.49	8.27	6.42

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-7 Weather: Mid 20˚F, Clear, Breezy, Feels like teens

Date: 2/7/2014 Purge Water Disposal: 55-gallon Drum

Sampled By: JG Well Diameter / Type: 2 in / PVC

Depth of Well (ft): 15.60 Water Column (ft): 8.26

Depth to Water(ft): 7.34 Volume of Water in Well (gal) 1.20

Depth to Product (ft): n/a Volume of Water to Remove (gal): n/a

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 9:30 Purge Rate (mL/min): ~250

End Purging: 10:15 Volume of Water Removed (gal): 2.5

Method of Purge: peristaltic pump Method of Sampling: low flow

Physical Appearance/ Comments: Clear

DUP-020714 collected at this well. Sample time 12:00 (same bottle count as below)

Samples Collected: (analyses / no. bottles) TCL VOCs; 3 - 40mL voas with HCL, TCL SVOCs; 2 - 1L Ambers, PCBs; 2 - 1L Ambers

TCL Pesticides; 2 - 500mL Ambers, TAL Metals (total & filtered); 2 - 500 mL plastic with HNO3 (filtered)

Sample Time: 10:15 Laboratory : Alpha Analytical, MA

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
9:33	7.48	250	-75	2.52	19.5	7.53	20.05	5.25
9:36	7.48	250	-75	2.59	21.3	7.31	18.82	5.27
9:39	7.48	250	-76	2.64	23.4	7.16	17.20	5.29
9:44	7.48	250	-82	2.67	14.0	7.22	16.17	4.16
9:49	7.48	250	-85	2.70	11.0	7.25	15.25	5.52
9:54	7.48	250	-90	2.76	7.2	7.29	14.23	4.59
9:59	7.48	250	-92	2.76	6.2	7.32	13.88	4.90
10:04	7.48	250	-95	2.61	4.9	7.36	13.22	4.28
10:09	7.48	250	-97	2.84	5.1	7.39	12.83	4.30
10:14	7.48	250	-100	2.88	4.0	7.43	12.23	4.19

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-1 Weather: 30F, Clear, Breezy, feels like teens

Date: 12/16/2013 Purge Water Disposal:

Sampled By: JG Well Diameter / Type: 2 in PVC

Depth of Well (ft): 19.20 Water Column (ft): 11.12

Depth to Water(ft): 8.08 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 1252 Purge Rate: ~200 mL/min

End Purging: 1321 Volume of Water Removed (gal): 1.5

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

Time: 1325 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
1255	8.11	200	-37	1.780	73.3	6.81	7.28	4.35
1258	8.11	200	-79	1.750	26.9	6.83	10.3	1.14
1301	8.11	200	-95	1.730	11.8	6.84	11.85	0.03
1306	8.11	200	-105	1.720	6.5	6.85	12.87	0.00
1311	8.11	200	-111	1.770	6.0	6.86	11.73	0.00
1316	8.11	200	-111	1.680	6.6	6.84	12.72	0.00
1321	8.11	200	-115	1.690	6.1	6.86	13.7	0.00

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-2 Weather: mid 20sF-mid 30sF, Clear, Cold

Date: 12/18/2013 Purge Water Disposal:

Sampled By: JG Well Diameter / Type: 2 in PVC

Depth of Well (ft): 22.00 Water Column (ft): 14.38

Depth to Water(ft): 7.62 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 905 Purge Rate: 200 mL/min

End Purging: 934 Volume of Water Removed (gal): 1.5

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

DUP-1-121613 collected at 1040 as well

Time: 935 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
908	7.71	200	-103	2.2	24.7	7.48	11.73	2.20
911	7.71	200	-108	2.17	21.8	7.20	12.33	0.33
914	7.71	200	-111	2.15	15.9	7.02	13.08	0.00
919	7.71	200	-112	2.15	17.2	6.99	13.17	0.00
924	7.71	200	-112	2.17	17.7	6.97	13.25	0.00
929	7.71	200	-112	2.16	18.9	9.96	13.3	0.00
934	7.71	200	-113	2.16	16.8	6.95	13.37	0.00

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-3 Weather: mid 20sF-mid 30sF, Clear, Cold

Date: 12/18/2013 Purge Water Disposal:

Sampled By: JG Well Diameter / Type: 4 in PVC

Depth of Well (ft): 17.95 Water Column (ft): 8.93

Depth to Water(ft): 9.02 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	2 in	**4 in**	6 in	8 in
gallons per foot:	0.041	0.163	**0.653**	1.469	2.611

Start Purging: 809 Purge Rate: 200 mL/min

End Purging: 838 Volume of Water Removed (gal): 1.5

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

Time: 840 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
812	9.24	200	-44	3.83	19.9	7.11	11.56	10.07
815	9.24	200	-84	3.72	12.2	7.03	14.71	2.94
818	9.24	200	-98	3.73	8.7	7.07	15.24	0.99
823	9.24	200	-103	3.8	6.9	7.09	15.61	0.12
828	9.24	200	-106	3.86	5.6	7.06	15.79	0.00
833	9.24	200	-106	3.88	5.0	7.05	15.84	0.00
838	9.24	200	-106	3.94	4.5	7.03	15.87	0.00

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-4 Weather: 30F, Clear, Breezy, feels like teens

Date: 12/16/2013 Purge Water Disposal:

Sampled By: JF Well Diameter / Type: 2 in PVC

Depth of Well (ft): 16.80 Water Column (ft): 8.18

Depth to Water(ft): 8.62 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 1040 Purge Rate: ~200 mL/min

End Purging: 1120 Volume of Water Removed (gal): 2

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

DUP121613 collected at 1125 as well

Time: 1125 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
1045	8.78	150	1	3.350	40.0	6.85	14.6	2.50
1050	8.78	150	27	3.380	27.8	6.73	13.33	1.76
1055	8.79	150	40	3.400	23.2	6.72	12.85	1.77
1100	8.79	150	57	3.410	17.0	6.71	12.49	1.89
1105	8.8	150	64	3.370	14.9	6.70	12.73	1.90
1110	8.8	150	72	3.400	13.2	6.71	12.24	2.01
1115	8.8	150	78	3.370	13.0	6.71	12.45	1.97
1120	8.8	150	86	3.360	10.2	6.72	12.67	2.17
1125	8.8	150	90	3.35	9.9	6.71	12.8	2.12

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-5 Weather: 30F, Clear, Breezy, feels like teens

Date: 12/16/2013 Purge Water Disposal:

Sampled By: JF Well Diameter / Type: 2 in PVC

Depth of Well (ft): 16.80 Water Column (ft): 8.00

Depth to Water(ft): 8.8 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 930 Purge Rate: 150 mL/min

End Purging: 1020 Volume of Water Removed (gal): 2

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: Slight odor, clear to gray, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

Time: 1020 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
935	8.8	150	-39	3.110	99.9	6.63	14.05	2.42
940	9	150	-63	3.020	296.0	6.74	14.28	2.00
945	10.22	150	-75	3.060	231.0	6.80	14.89	1.88
950	10.19	150	-79	3.080	215.0	6.83	14.52	1.84
955	10.15	150	-81	3.070	210.0	6.85	14.11	1.76
1000	10.1	150	-84	3.080	208.0	6.87	13.56	1.67
1005	10.1	150	-87	3.100	191.0	6.89	13.22	1.60
1010	10.1	150	-92	3.110	156.0	7.33	13.16	2.06
1015	10.1	150	-93	3.12	135	7	13.12	1.51
1020	10.1	150	-94	3.16	132	6.97	12.81	1.46

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-6 Weather: 30F, Clear, Breezy, feels like teens

Date: 12/16/2013 Purge Water Disposal:

Sampled By: JF Well Diameter / Type: 2 in PVC

Depth of Well (ft): 16.54 Water Column (ft): 8.19

Depth to Water(ft): 8.35 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 1150 Purge Rate: 150 mL/min

End Purging: 1240 Volume of Water Removed (gal): 2.5

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: Clear to gray, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

Time: 1245 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
1155	8.5	150	-6	1.98	282.0	6.88	14.83	0.87
1200	8.8	150	-13	1.98	233.0	6.89	14.37	0.80
1205	8.84	150	-29	1.97	197.0	6.95	13.97	0.71
1210	8.8	150	-34	1.96	178.0	6.98	13.58	0.70
1215	8.8	150	-39	1.96	135.0	7.00	13.50	0.68
1220	8.8	150	-42	1.96	121.0	7.07	13.37	0.72
1225	8.8	150	-47	1.96	89.5	7.05	13.44	0.69
1230	8.8	150	-51	1.96	75.2	7.07	13.55	0.64
1235	8.8	150	-54	1.96	55.8	1.09	13.36	0.66
1240	8.8	150	-57	1.96	44.7	7.11	13.36	0.65

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-7 Weather: mid 20sF-mid 30sF, Clear, Cold

Date: 12/18/2013 Purge Water Disposal:

Sampled By: JF Well Diameter / Type: 2 in PVC

Depth of Well (ft): 15.60 Water Column (ft): 7.89

Depth to Water(ft): 7.71 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 845 Purge Rate: 150 mL/min

End Purging: 925 Volume of Water Removed (gal): 2

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

Time: 930 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
850	8	150	-50	4.66	43.9	7.16	11.75	1.99
855	8.1	150	-72	4.31	21.5	7.16	12.16	1.39
900	8.1	150	-78	4.17	19.9	7.48	12.38	2.14
905	8.14	150	-80	4.12	18.8	7.27	12.41	1.49
910	8.19	150	-81	4.07	19.6	7.19	12.65	1.29
915	8.21	150	-83	4.02	18.0	7.18	12.74	1.32
920	8.24	150	-87	3.87	17.9	7.19	12.77	1.19
925	8.24	150	-88	3.84	17.1	7.22	12.69	1.17

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-8 Weather: mid 20sF-mid 30sF, Clear, Cold

Date: 12/18/2013 Purge Water Disposal:

Sampled By: JG Well Diameter / Type: 2 in PVC

Depth of Well (ft): 15.00 Water Column (ft): 9.13

Depth to Water(ft): 5.87 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 955 Purge Rate: 150 mL/min

End Purging: 1034 Volume of Water Removed (gal): 2

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

Time: 1040 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
958	5.97	200	-9	10.1	0.0	6.80	9.48	10.15
1001	6.03	150	17	10.6	0.0	6.65	11.27	4.02
1004	6.03	150	27	10.6	0.0	6.65	11.15	3.21
1009	6.03	150	38	10.6	0.0	6.65	10.83	2.81
1014	6.03	150	48	10.5	0.0	6.65	10.42	2.36
1019	6.03	150	55	10.5	0.0	6.65	10.14	2.07
1024	6.03	150	63	10.4	0.0	6.64	10.15	1.85
1029	6.03	150	68	10.5	0.0	6.64	10.07	1.76
1034	6.03	150	71	10.5	0.0	6.64	10.1	1.60

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-9 Weather: 30F, Clear, Breezy, feels like teens

Date: 12/16/2013 Purge Water Disposal:

Sampled By: JF Well Diameter / Type: 2 in PVC

Depth of Well (ft): 18.30 Water Column (ft): 9.19

Depth to Water(ft): 9.11 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 1058 Purge Rate: 200 mL/min

End Purging: 1132 Volume of Water Removed (gal): 2

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

Time: 1135 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
1101	9.13	200	158	1.84	54.1	6.73	10.29	2.13
1104	9.13	200	156	1.83	40.5	6.65	12.33	0.02
1107	9.13	200	149	1.82	41.1	6.64	13.05	0.00
1112	9.13	200	146	1.82	48.1	6.64	13.00	0.00
1117	9.13	200	141	1.82	60.0	6.64	12.66	0.00
1122	9.13	200	138	1.82	41.9	6.65	12.39	0.00
1127	9.13	200	134	1.81	37.4	6.66	12.01	0.00
1132	9.13	200	132	1.81	42.1	6.67	11.9	0.00

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-10 Weather: 30F, Clear, Breezy, feels like teens

Date: 12/16/2013 Purge Water Disposal:

Sampled By: JG Well Diameter / Type: 2 in PVC

Depth of Well (ft): 18.00 Water Column (ft): 8.92

Depth to Water(ft): 9.08 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 940 Purge Rate: 200 mL/min

End Purging: 1019 Volume of Water Removed (gal): 2

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

DUP-1-121613 collected at 1040 as well

Time: 1035 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
943	9.09	200	197	1.84	674.0	6.46	13.8	1.93
946	9.09	200	189	1.8	504.0	6.52	14.79	2.21
949	9.09	200	182	1.78	333.0	6.56	15.2	4.10
954	9.09	200	176	1.76	193.0	6.59	15.04	4.10
959	9.09	200	172	1.78	127.0	6.59	14.74	4.24
1004	9.09	200	168	1.8	146.0	6.59	14.11	4.01
1009	9.09	200	165	1.79	107.0	6.6	13.79	3.92
1014	9.09	200	161	1.77	66.3	6.59	13.4	3.21
1019	9.09	200	159	1.77	44.3	6.59	12.97	2.34

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-11 Weather: mid 20sF-mid 30sF, Clear, Cold

Date: 12/18/2013 Purge Water Disposal:

Sampled By: JF Well Diameter / Type: 2 in PVC

Depth of Well (ft): 22.00 Water Column (ft): 14.07

Depth to Water(ft): 7.93 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 800 Purge Rate: 150 mL/min

End Purging: 835 Volume of Water Removed (gal): 2

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

Time: 840 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
805	8.19	150	50	7.09	103.0	7.31	14.61	6.99
810	8.23	150	63	7.18	68.5	7.16	12.46	2.61
815	8.32	150	65	7.23	37.6	7.14	12.03	2.30
820	8.36	150	65	7.25	26.5	7.14	12.05	2.83
825	8.42	150	63	7.31	22.1	7.16	12.13	1.83
830	8.51	150	64	7.33	18.7	7.15	12.23	2.09
835	8.54	150	64	7.32	20.6	7.15	12.23	1.90

Well Sampling Data Form

Client: VHS 239 10th Ave **Project Number:** 2355.0001y000

Site Location: 239 10th Avenue, NYC (NE corner West 24th ST and 10th Ave)

Well No: MW-12 Weather: mid 20sF-mid 30sF, Clear, Cold

Date: 12/18/2013 Purge Water Disposal:

Sampled By: JF Well Diameter / Type: 2 in PVC

Depth of Well (ft): 21.60 Water Column (ft): 13.69

Depth to Water(ft): 7.91 Volume of Water in Well (gal)

Depth to Product (ft): n/a Volume of Water to Remove (gal):

well diameter:	1 in	**2 in**	4 in	6 in	8 in
gallons per foot:	0.041	**0.163**	0.653	1.469	2.611

Start Purging: 945 Purge Rate: 150 mL/min

End Purging: 1030 Volume of Water Removed (gal): 2

Method of Purge: peri pump Method of Sampling: low flow

Physical Appearance/ Comments: clear, no visible suspendid solids

Samples Collected: (analyses / no. bottles) VOCs; 3-40mL voas

Time: 1035 Laboratory : Alpha

Final Field Measurements:

Time	**DTW** ft	**Flow Rate** ml/min	**ORP** mV (+/- 10 mV)	**Conductivity** **mS/m** - S/m **(w/in 3%)**	**Turbidity** NTU (w/in %10)	**pH** SU (+/- 0.1)	**Temperature** **C^o** - *F^o* **(w/in 3%)**	**Dissolved O_2** mg/L (w/in 10%)
955	7.94	150	-10	5.72	307.0	7.43	15.06	6.80
1000	8	150	-4	5.68	274.0	7.43	14.7	4.20
1005	8.06	150	1	5.69	182.0	7.44	14.25	3.64
1010	8.12	150	6	5.71	162.0	7.44	13.88	3.32
1015	8.12	150	13	5.75	161.0	7.46	13.46	3.05
1020	8.12	150	15	5.76	155.0	7.46	13.36	2.98
1025	8.12	150	17	5.75	157.0	7.46	13.41	2.88
1030	8.12	150	19	5.76	136.0	7.46	13.41	2.91

Soil Vapor Sampling Form
239 10th Avenue
New York, NY 10001

Date: 2/7/2014 **Time:** 09:00
Weather : Clear and Breezy
Temperature: 25'F Humidity: 53%
Wind Magnitude: 5 mph Wind Direction: West
Barometric Pressure: 30.32 Precipitation: 0

Sampling Team: J. Gavin
Sampling Location: SV-1
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)
Soil vapor point was located in the NE section of the Site ~3 feet from the existing convience store and approximately 20 feet WNW of 10th Avenue and 20.5 feet SSW of the adjacent neighboring building

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: 4-5 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: Yes
Apparent Moisture Content: N/A
Purge Rate: 0.127 L/min Must be less than 0.2 L/min
Purge Time: 75 sec
Helium Rate at enclosure: 18,000 ppm
Helium Rate from sample tubing: 0.0 ppm Is this rate <10% of the rate at the enclosure **Yes /** No

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Once the tracer gas screening procedures are completed and no short-circuiting is determined to be present at the location the soil vapor sample can be collected in a lab certified clean summa canister at a rate less than 0.2 L/min.

Finishing pressure should be within 0.5 - 4 " of Hg

Is the Summa Canister Certified Clean and within the proper holding time ? Yes

Starting Pressure: -30.2 in. of Hg
Starting Time: 09:08
Ending Time: 10:25
Ending Pressure: -1.43 in. of Hg

Summa Canister Identification #: 447
Flow Regulator ID # 0443
Sample ID # SV-1
Time 10:25

Analysis VOCs (TO-15)
Laboratory Alpha Analytical, MA

Soil Vapor Sampling Form
239 10th Avenue
New York, NY 10001

Date: 2/7/2014 **Time:** 08:50
Weather : Clear and Breezy

Temperature:	25˚F	Humidity:	53%
Wind Magnitude:	5 mph	Wind Direction:	West
Barometric Pressure:	30.32	Precipitation:	0

Sampling Team: J. Gavin
Sampling Location: SV-2
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)
Soil vapor point was located approximately 29.5 feet from adjacent property building (W24th Street Building) and 31 feet from W 24th Street. (SV-2 was 3 feet SSW of SB-3)

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: 4-5 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: Yes
Apparent Moisture Content: N/A
Purge Rate: 0.127 L/min Must be less than 0.2 L/min
Purge Time: 75 sec
Helium Rate at enclosure: 18,500 ppm
Helium Rate from sample tubing: 0.0 ppm Is this rate <10% of the rate at the enclosure **Yes /** No

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Once the tracer gas screening procedures are completed and no short-circuiting is determined to be present at the location the soil vapor sample can be collected in a lab certified clean summa canister at a rate less than 0.2 L/min.

Finishing pressure should be within 0.5 - 4 " of Hg

Is the Summa Canister Certified Clean and within the proper holding time ? Yes

Starting Pressure: -30.1 in. of Hg
Starting Time: 08:58
Ending Time: 11:02
Ending Pressure: -10 (-2*) in. of Hg

***** Flow controller's digital gauge reading was malfunctioning due to apparent lose of battery power. Lab confirmed the actual end pressure to be -2.

Summa Canister Identification #: 387
Flow Regulator ID # 0282
Sample ID # SV-2
Time 11:02

Analysis VOCs (TO-15)
Laboratory Alpha Analytical, MA

Soil Vapor Sampling Form
239 10th Avenue
New York, NY 10001

Date: 2/7/2014 **Time:** 09:00
Weather : Clear and Breezy
Temperature: 25˚F Humidity: 53%
Wind Magnitude: 5 mph Wind Direction: West
Barometric Pressure: 30.32 Precipitation: 0

Sampling Team: J. Gavin
Sampling Location: SV-3
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)
Soil vapor point was located approximately 13 feet from property boundary at 10th Ave and 17 feet from property boundary at W 24th Street. (SV-3 was 8 feet SE of SB-4)

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: 4-5 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: Yes
Apparent Moisture Content: N/A
Purge Rate: 0.127 L/min Must be less than 0.2 L/min
Purge Time: 75 sec
Helium Rate at enclosure: 18,250 ppm
Helium Rate from sample tubing: 0.0 ppm Is this rate <10% of the rate at the enclosure **Yes /** No

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Once the tracer gas screening procedures are completed and no short-circuiting is determined to be present at the location the soil vapor sample can be collected in a lab certified clean summa canister at a rate less than 0.2 L/min.

Finishing pressure should be within 0.5 - 4 " of Hg

Is the Summa Canister Certified Clean and within the proper holding time ? Yes

Starting Pressure: -30.1 in. of Hg
Starting Time: 09:03
Ending Time: 11:01
Ending Pressure: -10 (-3.3*) in. of Hg
***** Flow controller's digital gauge reading was malfunctioning due to apparent lose of battery power. Lab confirmed the actual end pressure to be -3.3.

Summa Canister Identification #: 181
Flow Regulator ID # 00005
Sample ID # SV-3
Time 11:01

Analysis VOCs (TO-15)
Laboratory Alpha Analytical, MA

APPENDIX F

Laboratory Data Deliverables for Soil Analytical Data

ANALYTICAL REPORT

Lab Number:	L1402856
Client:	Roux Associates, Inc. 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Wendy Shen
Phone:	(631) 232-2600
Project Name:	239 10TH AVE
Project Number:	2355.0001Y000
Report Date:	02/11/14

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1402856-01	SB-6 (0-2)	NEW YORK, NY	02/04/14 11:15
L1402856-02	FIELD BLANK	NEW YORK, NY	02/04/14 11:20
L1402856-03	SB-4 (0-2)	NEW YORK, NY	02/04/14 13:05
L1402856-04	DUP-020414	NEW YORK, NY	02/04/14 12:00
L1402856-05	TRIP BLANK	NEW YORK, NY	02/04/14 00:00

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The surrogate recoveries for L1402856-01 and -03 are below the acceptance criteria for dibromofluoromethane (51% and 23%, respectively), due to a known matrix effect caused by the high pH of the sample (>10).

The WG669267-3 Method Blank, associated with L1402856-01 and -03, has a concentration above the reporting limit for bromomethane. Since the samples were non-detect for this target analyte, no further actions were taken. The results of the original analysis are reported.

Semivolatile Organics

L1402856-01, -03, and -04 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the sample matrices.

Metals

L1402856-01, -03, and -04 have elevated detection limits for all elements, with the exception of mercury, due to the analytical dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 02/11/14

ORGANICS

VOLATILES

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-01
Client ID: SB-6 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/07/14 14:55
Analyst: MV
Percent Solids: 92%

Date Collected: 02/04/14 11:15
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.8	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.25	1
Chloroform	ND		ug/kg	2.1	0.52	1
Carbon tetrachloride	ND		ug/kg	1.4	0.29	1
1,2-Dichloropropane	ND		ug/kg	4.9	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.43	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.42	1
Tetrachloroethene	ND		ug/kg	1.4	0.20	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	7.0	0.17	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.15	1
Bromodichloromethane	ND		ug/kg	1.4	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.18	1
1,1-Dichloropropene	ND		ug/kg	7.0	0.64	1
Bromoform	ND		ug/kg	5.6	0.58	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.24	1
Benzene	ND		ug/kg	1.4	0.16	1
Toluene	ND		ug/kg	2.1	0.16	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	7.0	1.1	1
Bromomethane	ND		ug/kg	2.8	0.47	1
Vinyl chloride	ND		ug/kg	2.8	0.20	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.30	1
Trichloroethene	ND		ug/kg	1.4	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	7.0	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	7.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	7.0	0.34	1

Project Name: 239 10TH AVE **Lab Number:** L1402856

Project Number: 2355.0001Y000 **Report Date:** 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-01 Date Collected: 02/04/14 11:15

Client ID: SB-6 (0-2) Date Received: 02/04/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.8	0.14	1
p/m-Xylene	ND		ug/kg	2.8	0.45	1
o-Xylene	ND		ug/kg	2.8	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.21	1
Dibromomethane	ND		ug/kg	14	0.23	1
Styrene	ND		ug/kg	2.8	0.43	1
Dichlorodifluoromethane	ND		ug/kg	14	0.30	1
Acetone	43		ug/kg	14	4.3	1
Carbon disulfide	ND		ug/kg	14	2.8	1
2-Butanone	8.6	J	ug/kg	14	0.50	1
Vinyl acetate	ND		ug/kg	14	0.67	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.31	1
2-Hexanone	ND		ug/kg	14	0.26	1
Bromochloromethane	ND		ug/kg	7.0	0.28	1
2,2-Dichloropropane	ND		ug/kg	7.0	0.32	1
1,2-Dibromoethane	ND		ug/kg	5.6	0.25	1
1,3-Dichloropropane	ND		ug/kg	7.0	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	7.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.4	0.28	1
sec-Butylbenzene	ND		ug/kg	1.4	0.29	1
tert-Butylbenzene	ND		ug/kg	7.0	0.78	1
o-Chlorotoluene	ND		ug/kg	7.0	0.22	1
p-Chlorotoluene	ND		ug/kg	7.0	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.0	1.1	1
Hexachlorobutadiene	ND		ug/kg	7.0	0.59	1
Isopropylbenzene	ND		ug/kg	1.4	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.27	1
Naphthalene	ND		ug/kg	7.0	1.1	1
Acrylonitrile	ND		ug/kg	14	0.33	1
n-Propylbenzene	ND		ug/kg	1.4	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.0	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.0	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.0	0.80	1
1,4-Dioxane	ND		ug/kg	140	24.	1
1,4-Diethylbenzene	ND		ug/kg	5.6	0.22	1
4-Ethyltoluene	ND		ug/kg	5.6	0.16	1

Project Name: 239 10TH AVE
Lab Number: L1402856
Project Number: 2355.0001Y000
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-01
Client ID: SB-6 (0-2)
Sample Location: NEW YORK, NY
Date Collected: 02/04/14 11:15
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.6	0.18	1
Ethyl ether	ND		ug/kg	7.0	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	0.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	**51**	Q	70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-02
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/06/14 12:53
Analyst: PD

Date Collected: 02/04/14 11:20
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-02
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/04/14 11:20
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1402856
Project Number: 2355.0001Y000
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-02
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/04/14 11:20
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	122		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-03
Client ID: SB-4 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/07/14 15:22
Analyst: MV
Percent Solids: 91%

Date Collected: 02/04/14 13:05
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.7	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.24	1
Chloroform	ND		ug/kg	2.1	0.51	1
Carbon tetrachloride	ND		ug/kg	1.4	0.29	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.42	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.42	1
Tetrachloroethene	ND		ug/kg	1.4	0.19	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	6.9	0.17	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.15	1
Bromodichloromethane	ND		ug/kg	1.4	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
1,1-Dichloropropene	ND		ug/kg	6.9	0.62	1
Bromoform	ND		ug/kg	5.5	0.57	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.23	1
Benzene	ND		ug/kg	1.4	0.16	1
Toluene	ND		ug/kg	2.1	0.15	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	6.9	1.1	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.19	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.29	1
Trichloroethene	ND		ug/kg	1.4	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	6.9	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.9	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	6.9	0.33	1

Project Name: 239 10TH AVE **Lab Number:** L1402856

Project Number: 2355.0001Y000 **Report Date:** 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-03 Date Collected: 02/04/14 13:05

Client ID: SB-4 (0-2) Date Received: 02/04/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.7	0.14	1
p/m-Xylene	ND		ug/kg	2.7	0.44	1
o-Xylene	ND		ug/kg	2.7	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	14	0.22	1
Styrene	ND		ug/kg	2.7	0.42	1
Dichlorodifluoromethane	ND		ug/kg	14	0.30	1
Acetone	31		ug/kg	14	4.3	1
Carbon disulfide	ND		ug/kg	14	2.7	1
2-Butanone	5.7	J	ug/kg	14	0.49	1
Vinyl acetate	ND		ug/kg	14	0.66	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.31	1
2-Hexanone	ND		ug/kg	14	0.26	1
Bromochloromethane	ND		ug/kg	6.9	0.27	1
2,2-Dichloropropane	ND		ug/kg	6.9	0.31	1
1,2-Dibromoethane	ND		ug/kg	5.5	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.9	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	6.9	0.29	1
n-Butylbenzene	ND		ug/kg	1.4	0.27	1
sec-Butylbenzene	ND		ug/kg	1.4	0.28	1
tert-Butylbenzene	ND		ug/kg	6.9	0.77	1
o-Chlorotoluene	ND		ug/kg	6.9	0.22	1
p-Chlorotoluene	ND		ug/kg	6.9	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.9	1.1	1
Hexachlorobutadiene	ND		ug/kg	6.9	0.58	1
Isopropylbenzene	ND		ug/kg	1.4	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.26	1
Naphthalene	ND		ug/kg	6.9	1.0	1
Acrylonitrile	ND		ug/kg	14	0.33	1
n-Propylbenzene	ND		ug/kg	1.4	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.9	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.9	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.9	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.9	0.79	1
1,4-Dioxane	ND		ug/kg	140	24.	1
1,4-Diethylbenzene	ND		ug/kg	5.5	0.22	1
4-Ethyltoluene	ND		ug/kg	5.5	0.16	1

Project Name: 239 10TH AVE
Lab Number: L1402856
Project Number: 2355.0001Y000
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-03
Client ID: SB-4 (0-2)
Sample Location: NEW YORK, NY
Date Collected: 02/04/14 13:05
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.5	0.18	1
Ethyl ether	ND		ug/kg	6.9	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.9	0.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	**23**	Q	70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-04
Client ID: DUP-020414
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/09/14 18:08
Analyst: BN
Percent Solids: 90%

Date Collected: 02/04/14 12:00
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.8	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.25	1
Chloroform	ND		ug/kg	2.1	0.52	1
Carbon tetrachloride	ND		ug/kg	1.4	0.30	1
1,2-Dichloropropane	ND		ug/kg	5.0	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.44	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.43	1
Tetrachloroethene	ND		ug/kg	1.4	0.20	1
Chlorobenzene	ND		ug/kg	1.4	0.49	1
Trichlorofluoromethane	ND		ug/kg	7.1	0.17	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.16	1
Bromodichloromethane	ND		ug/kg	1.4	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.18	1
1,1-Dichloropropene	ND		ug/kg	7.1	0.65	1
Bromoform	ND		ug/kg	5.7	0.59	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.24	1
Benzene	ND		ug/kg	1.4	0.17	1
Toluene	ND		ug/kg	2.1	0.16	1
Ethylbenzene	ND		ug/kg	1.4	0.21	1
Chloromethane	ND		ug/kg	7.1	1.1	1
Bromomethane	ND		ug/kg	2.8	0.48	1
Vinyl chloride	ND		ug/kg	2.8	0.20	1
Chloroethane	ND		ug/kg	2.8	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.30	1
Trichloroethene	ND		ug/kg	1.4	0.22	1
1,2-Dichlorobenzene	ND		ug/kg	7.1	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	7.1	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	7.1	0.34	1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-04
Client ID: DUP-020414
Sample Location: NEW YORK, NY
Date Collected: 02/04/14 12:00
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	1.7	J	ug/kg	2.8	0.15	1
p/m-Xylene	ND		ug/kg	2.8	0.46	1
o-Xylene	ND		ug/kg	2.8	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.21	1
Dibromomethane	ND		ug/kg	14	0.23	1
Styrene	ND		ug/kg	2.8	0.44	1
Dichlorodifluoromethane	ND		ug/kg	14	0.31	1
Acetone	50		ug/kg	14	4.4	1
Carbon disulfide	ND		ug/kg	14	2.8	1
2-Butanone	8.4	J	ug/kg	14	0.50	1
Vinyl acetate	ND		ug/kg	14	0.68	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.35	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.32	1
2-Hexanone	ND		ug/kg	14	0.27	1
Bromochloromethane	ND		ug/kg	7.1	0.28	1
2,2-Dichloropropane	ND		ug/kg	7.1	0.32	1
1,2-Dibromoethane	ND		ug/kg	5.7	0.25	1
1,3-Dichloropropane	ND		ug/kg	7.1	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.45	1
Bromobenzene	ND		ug/kg	7.1	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.28	1
sec-Butylbenzene	ND		ug/kg	1.4	0.29	1
tert-Butylbenzene	ND		ug/kg	7.1	0.80	1
o-Chlorotoluene	ND		ug/kg	7.1	0.23	1
p-Chlorotoluene	ND		ug/kg	7.1	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.1	1.1	1
Hexachlorobutadiene	ND		ug/kg	7.1	0.60	1
Isopropylbenzene	ND		ug/kg	1.4	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.27	1
Naphthalene	ND		ug/kg	7.1	1.1	1
Acrylonitrile	ND		ug/kg	14	0.34	1
n-Propylbenzene	ND		ug/kg	1.4	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.1	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.1	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.1	0.81	1
1,4-Dioxane	ND		ug/kg	140	25.	1
1,4-Diethylbenzene	ND		ug/kg	5.7	0.23	1
4-Ethyltoluene	ND		ug/kg	5.7	0.16	1

Project Name: 239 10TH AVE
Lab Number: L1402856
Project Number: 2355.0001Y000
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-04
Client ID: DUP-020414
Sample Location: NEW YORK, NY
Date Collected: 02/04/14 12:00
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.7	0.18	1
Ethyl ether	ND		ug/kg	7.1	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.1	0.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	89		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-05
Client ID: TRIP BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/06/14 13:25
Analyst: PD

Date Collected: 02/04/14 00:00
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE **Lab Number:** L1402856

Project Number: 2355.0001Y000 **Report Date:** 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-05 Date Collected: 02/04/14 00:00

Client ID: TRIP BLANK Date Received: 02/04/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE **Lab Number:** L1402856

Project Number: 2355.0001Y000 **Report Date:** 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-05 Date Collected: 02/04/14 00:00

Client ID: TRIP BLANK Date Received: 02/04/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	122		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/06/14 10:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,05 Batch: WG668981-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/06/14 10:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,05 Batch: WG668981-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/06/14 10:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,05 Batch: WG668981-3					
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	115		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/07/14 08:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03 Batch: WG669267-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	3.4		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/07/14 08:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03 Batch: WG669267-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	0.74	J	ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/07/14 08:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03 Batch: WG669267-3					
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Tentatively Identified Compounds		
No Tentatively Identified Compounds	ND	ug/kg

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/07/14 08:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03 Batch: WG669267-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	94		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/09/14 08:52
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG669485-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/09/14 08:52
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG669485-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/09/14 08:52
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG669485-3					
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG668981-1 WG668981-2								
Methylene chloride	105		105		70-130	0		20
1,1-Dichloroethane	105		106		70-130	1		20
Chloroform	105		107		70-130	2		20
Carbon tetrachloride	106		106		63-132	0		20
1,2-Dichloropropane	100		101		70-130	1		20
Dibromochloromethane	92		95		63-130	3		20
1,1,2-Trichloroethane	96		98		70-130	2		20
Tetrachloroethene	91		91		70-130	0		20
Chlorobenzene	93		94		75-130	1		20
Trichlorofluoromethane	116		116		62-150	0		20
1,2-Dichloroethane	106		107		70-130	1		20
1,1,1-Trichloroethane	106		105		67-130	1		20
Bromodichloromethane	102		103		67-130	1		20
trans-1,3-Dichloropropene	94		97		70-130	3		20
cis-1,3-Dichloropropene	99		101		70-130	2		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	82		85		54-136	4		20
1,1,2,2-Tetrachloroethane	87		90		67-130	3		20
Benzene	102		103		70-130	1		20
Toluene	94		95		70-130	1		20
Ethylbenzene	97		98		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG668981-1 WG668981-2								
Chloromethane	96		95		64-130	1		20
Bromomethane	54		60		39-139	11		20
Vinyl chloride	101		100		55-140	1		20
Chloroethane	128		135		55-138	5		20
1,1-Dichloroethene	110		113		61-145	3		20
trans-1,2-Dichloroethene	102		103		70-130	1		20
Trichloroethene	104		104		70-130	0		20
1,2-Dichlorobenzene	86		87		70-130	1		20
1,3-Dichlorobenzene	88		89		70-130	1		20
1,4-Dichlorobenzene	86		87		70-130	1		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	98		98		70-130	0		20
o-Xylene	90		91		70-130	1		20
cis-1,2-Dichloroethene	96		97		70-130	1		20
Dibromomethane	100		102		70-130	2		20
1,2,3-Trichloropropane	88		91		64-130	3		20
Acrylonitrile	98		102		70-130	4		20
Styrene	92		93		70-130	1		20
Dichlorodifluoromethane	88		85		36-147	3		20
Acetone	58		**54**	Q	58-148	7		20
Carbon disulfide	109		114		51-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG668981-1 WG668981-2								
2-Butanone	75		76		63-138	1		20
Vinyl acetate	107		111		70-130	4		20
4-Methyl-2-pentanone	70		73		59-130	4		20
2-Hexanone	**55**	Q	58		57-130	5		20
Bromochloromethane	104		106		70-130	2		20
2,2-Dichloropropane	109		108		63-133	1		20
1,2-Dibromoethane	90		92		70-130	2		20
1,3-Dichloropropane	93		96		70-130	3		20
1,1,1,2-Tetrachloroethane	95		97		64-130	2		20
Bromobenzene	84		86		70-130	2		20
n-Butylbenzene	89		89		53-136	0		20
sec-Butylbenzene	93		93		70-130	0		20
tert-Butylbenzene	84		85		70-130	1		20
o-Chlorotoluene	91		92		70-130	1		20
p-Chlorotoluene	92		93		70-130	1		20
1,2-Dibromo-3-chloropropane	88		90		41-144	2		20
Hexachlorobutadiene	86		84		63-130	2		20
Isopropylbenzene	83		84		70-130	1		20
p-Isopropyltoluene	82		84		70-130	2		20
Naphthalene	**66**	Q	**69**	Q	70-130	4		20
n-Propylbenzene	92		93		69-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

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Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG668981-1 WG668981-2								
1,2,3-Trichlorobenzene	83		86		70-130	4		20
1,2,4-Trichlorobenzene	80		82		70-130	2		20
1,3,5-Trimethylbenzene	92		93		64-130	1		20
1,2,4-Trimethylbenzene	87		89		70-130	2		20
1,4-Dioxane	104		103		56-162	1		20
1,4-Diethylbenzene	83		84		70-130	1		20
4-Ethyltoluene	92		93		70-130	1		20
1,2,4,5-Tetramethylbenzene	79		80		70-130	1		20
Ethyl ether	109		116		59-134	6		20
trans-1,4-Dichloro-2-butene	90		90		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	95		97		70-130
Dibromofluoromethane	110		109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03 Batch: WG669267-1 WG669267-2								
Methylene chloride	93		91		70-130	2		30
1,1-Dichloroethane	93		87		70-130	7		30
Chloroform	95		92		70-130	3		30
Carbon tetrachloride	91		88		70-130	3		30
1,2-Dichloropropane	92		89		70-130	3		30
Dibromochloromethane	97		96		70-130	1		30
1,1,2-Trichloroethane	98		97		70-130	1		30
Tetrachloroethene	101		98		70-130	3		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	118		115		70-139	3		30
1,2-Dichloroethane	92		90		70-130	2		30
1,1,1-Trichloroethane	95		92		70-130	3		30
Bromodichloromethane	92		91		70-130	1		30
trans-1,3-Dichloropropene	94		92		70-130	2		30
cis-1,3-Dichloropropene	90		88		70-130	2		30
1,1-Dichloropropene	96		93		70-130	3		30
Bromoform	103		101		70-130	2		30
1,1,2,2-Tetrachloroethane	103		98		70-130	5		30
Benzene	95		92		70-130	3		30
Toluene	98		96		70-130	2		30
Ethylbenzene	101		98		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

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Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03 Batch: WG669267-1 WG669267-2								
Chloromethane	81		78		52-130	4		30
Bromomethane	114		107		57-147	6		30
Vinyl chloride	101		97		67-130	4		30
Chloroethane	122		103		50-151	17		30
1,1-Dichloroethene	95		95		65-135	0		30
trans-1,2-Dichloroethene	95		91		70-130	4		30
Trichloroethene	96		94		70-130	2		30
1,2-Dichlorobenzene	107		98		70-130	9		30
1,3-Dichlorobenzene	103		102		70-130	1		30
1,4-Dichlorobenzene	103		101		70-130	2		30
Methyl tert butyl ether	84		82		66-130	2		30
p/m-Xylene	102		99		70-130	3		30
o-Xylene	100		97		70-130	3		30
cis-1,2-Dichloroethene	94		92		70-130	2		30
Dibromomethane	92		91		70-130	1		30
Styrene	97		96		70-130	1		30
Dichlorodifluoromethane	85		82		30-146	4		30
Acetone	88		79		54-140	11		30
Carbon disulfide	83		81		59-130	2		30
2-Butanone	87		84		70-130	4		30
Vinyl acetate	84		84		70-130	0		30

Lab Control Sample Analysis

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Project Number: 2355.0001Y000

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Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03 Batch: WG669267-1 WG669267-2								
4-Methyl-2-pentanone	82		83		70-130	1		30
1,2,3-Trichloropropane	100		96		68-130	4		30
2-Hexanone	83		81		70-130	2		30
Bromochloromethane	98		96		70-130	2		30
2,2-Dichloropropane	92		89		70-130	3		30
1,2-Dibromoethane	93		92		70-130	1		30
1,3-Dichloropropane	94		93		69-130	1		30
1,1,1,2-Tetrachloroethane	99		94		70-130	5		30
Bromobenzene	104		99		70-130	5		30
n-Butylbenzene	114		107		70-130	6		30
sec-Butylbenzene	106		105		70-130	1		30
tert-Butylbenzene	102		102		70-130	0		30
o-Chlorotoluene	106		100		70-130	6		30
p-Chlorotoluene	103		101		70-130	2		30
1,2-Dibromo-3-chloropropane	93		88		68-130	6		30
Hexachlorobutadiene	105		95		67-130	10		30
Isopropylbenzene	108		101		70-130	7		30
p-Isopropyltoluene	105		103		70-130	2		30
Naphthalene	100		94		70-130	6		30
Acrylonitrile	85		82		70-130	4		30
Isopropyl Ether	82		80		66-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03 Batch: WG669267-1 WG669267-2								
tert-Butyl Alcohol	77		77		70-130	0		30
n-Propylbenzene	112		104		70-130	7		30
1,2,3-Trichlorobenzene	106		100		70-130	6		30
1,2,4-Trichlorobenzene	107		97		70-130	10		30
1,3,5-Trimethylbenzene	109		100		70-130	9		30
1,2,4-Trimethylbenzene	102		102		70-130	0		30
Methyl Acetate	70		69		51-146	1		30
Ethyl Acetate	79		79		70-130	0		30
Acrolein	**64**	Q	**62**	Q	70-130	3		30
Cyclohexane	90		88		59-142	2		30
1,4-Dioxane	95		95		65-136	0		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		91		50-139	3		30
1,4-Diethylbenzene	106		102		70-130	4		30
4-Ethyltoluene	108		101		70-130	7		30
1,2,4,5-Tetramethylbenzene	105		93		70-130	12		30
Tetrahydrofuran	88		73		66-130	19		30
Ethyl ether	93		90		67-130	3		30
trans-1,4-Dichloro-2-butene	91		92		70-130	1		30
Methyl cyclohexane	95		92		70-130	3		30
Ethyl-Tert-Butyl-Ether	85		83		70-130	2		30
Tertiary-Amyl Methyl Ether	85		83		70-130	2		30

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Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03 Batch: WG669267-1 WG669267-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	101		98		70-130
Dibromofluoromethane	102		101		70-130

Lab Control Sample Analysis

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Lab Number: L1402856

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG669485-1 WG669485-2								
Methylene chloride	90		86		70-130	5		30
1,1-Dichloroethane	90		88		70-130	2		30
Chloroform	92		91		70-130	1		30
Carbon tetrachloride	90		88		70-130	2		30
1,2-Dichloropropane	88		87		70-130	1		30
Dibromochloromethane	93		96		70-130	3		30
1,1,2-Trichloroethane	96		99		70-130	3		30
Tetrachloroethene	99		98		70-130	1		30
Chlorobenzene	97		97		70-130	0		30
Trichlorofluoromethane	123		116		70-139	6		30
1,2-Dichloroethane	88		88		70-130	0		30
1,1,1-Trichloroethane	92		90		70-130	2		30
Bromodichloromethane	89		90		70-130	1		30
trans-1,3-Dichloropropene	93		93		70-130	0		30
cis-1,3-Dichloropropene	86		87		70-130	1		30
1,1-Dichloropropene	96		93		70-130	3		30
Bromoform	99		102		70-130	3		30
1,1,2,2-Tetrachloroethane	96		101		70-130	5		30
Benzene	91		89		70-130	2		30
Toluene	96		95		70-130	1		30
Ethylbenzene	98		95		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

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Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG669485-1 WG669485-2								
Chloromethane	82		74		52-130	10		30
Bromomethane	118		110		57-147	7		30
Vinyl chloride	98		92		67-130	6		30
Chloroethane	111		111		50-151	0		30
1,1-Dichloroethene	96		88		65-135	9		30
trans-1,2-Dichloroethene	93		92		70-130	1		30
Trichloroethene	98		96		70-130	2		30
1,2-Dichlorobenzene	100		97		70-130	3		30
1,3-Dichlorobenzene	101		99		70-130	2		30
1,4-Dichlorobenzene	101		98		70-130	3		30
Methyl tert butyl ether	80		81		66-130	1		30
p/m-Xylene	99		99		70-130	0		30
o-Xylene	96		96		70-130	0		30
cis-1,2-Dichloroethene	94		91		70-130	3		30
Dibromomethane	89		89		70-130	0		30
Styrene	96		96		70-130	0		30
Dichlorodifluoromethane	86		81		30-146	6		30
Acetone	62		61		54-140	2		30
Carbon disulfide	79		72		59-130	9		30
2-Butanone	**68**	Q	73		70-130	7		30
Vinyl acetate	82		82		70-130	0		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG669485-1 WG669485-2								
4-Methyl-2-pentanone	78		79		70-130	1		30
1,2,3-Trichloropropane	92		96		68-130	4		30
2-Hexanone	75		73		70-130	3		30
Bromochloromethane	94		93		70-130	1		30
2,2-Dichloropropane	89		86		70-130	3		30
1,2-Dibromoethane	90		92		70-130	2		30
1,3-Dichloropropane	92		94		69-130	2		30
1,1,1,2-Tetrachloroethane	98		98		70-130	0		30
Bromobenzene	98		99		70-130	1		30
n-Butylbenzene	106		101		70-130	5		30
sec-Butylbenzene	105		104		70-130	1		30
tert-Butylbenzene	101		101		70-130	0		30
o-Chlorotoluene	99		102		70-130	3		30
p-Chlorotoluene	100		100		70-130	0		30
1,2-Dibromo-3-chloropropane	90		92		68-130	2		30
Hexachlorobutadiene	98		95		67-130	3		30
Isopropylbenzene	100		101		70-130	1		30
p-Isopropyltoluene	103		99		70-130	4		30
Naphthalene	94		95		70-130	1		30
Acrylonitrile	82		81		70-130	1		30
Isopropyl Ether	82		81		66-130	1		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG669485-1 WG669485-2								
tert-Butyl Alcohol	75		78		70-130	4		30
n-Propylbenzene	107		107		70-130	0		30
1,2,3-Trichlorobenzene	96		100		70-130	4		30
1,2,4-Trichlorobenzene	101		100		70-130	1		30
1,3,5-Trimethylbenzene	101		102		70-130	1		30
1,2,4-Trimethylbenzene	105		105		70-130	0		30
Methyl Acetate	70		72		51-146	3		30
Ethyl Acetate	76		79		70-130	4		30
Acrolein	**53**	Q	**51**	Q	70-130	4		30
Cyclohexane	94		90		59-142	4		30
1,4-Dioxane	93		93		65-136	0		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		89		50-139	11		30
1,4-Diethylbenzene	106		100		70-130	6		30
4-Ethyltoluene	95		95		70-130	0		30
1,2,4,5-Tetramethylbenzene	100		95		70-130	5		30
Tetrahydrofuran	84		83		66-130	1		30
Ethyl ether	89		90		67-130	1		30
trans-1,4-Dichloro-2-butene	90		95		70-130	5		30
Methyl cyclohexane	100		95		70-130	5		30
Ethyl-Tert-Butyl-Ether	84		84		70-130	0		30
Tertiary-Amyl Methyl Ether	84		84		70-130	0		30

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Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG669485-1 WG669485-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	105		108		70-130
4-Bromofluorobenzene	96		100		70-130
Dibromofluoromethane	99		100		70-130

SEMIVOLATILES

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-01	D	Date Collected:	02/04/14 11:15
Client ID:	SB-6 (0-2)		Date Received:	02/04/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	02/06/14 01:50
Analytical Date:	02/07/14 16:46			
Analyst:	JB			
Percent Solids:	92%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	570	150	4
1,2,4-Trichlorobenzene	ND		ug/kg	720	240	4
Hexachlorobenzene	ND		ug/kg	430	130	4
Bis(2-chloroethyl)ether	ND		ug/kg	650	200	4
2-Chloronaphthalene	ND		ug/kg	720	230	4
1,2-Dichlorobenzene	ND		ug/kg	720	240	4
1,3-Dichlorobenzene	ND		ug/kg	720	230	4
1,4-Dichlorobenzene	ND		ug/kg	720	220	4
3,3'-Dichlorobenzidine	ND		ug/kg	720	190	4
2,4-Dinitrotoluene	ND		ug/kg	720	160	4
2,6-Dinitrotoluene	ND		ug/kg	720	180	4
Fluoranthene	1200		ug/kg	430	130	4
4-Chlorophenyl phenyl ether	ND		ug/kg	720	220	4
4-Bromophenyl phenyl ether	ND		ug/kg	720	160	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	860	250	4
Bis(2-chloroethoxy)methane	ND		ug/kg	780	220	4
Hexachlorobutadiene	ND		ug/kg	720	200	4
Hexachlorocyclopentadiene	ND		ug/kg	2100	460	4
Hexachloroethane	ND		ug/kg	570	130	4
Isophorone	ND		ug/kg	650	190	4
Naphthalene	ND		ug/kg	720	240	4
Nitrobenzene	ND		ug/kg	650	170	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	570	150	4
n-Nitrosodi-n-propylamine	ND		ug/kg	720	210	4
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	720	190	4
Butyl benzyl phthalate	ND		ug/kg	720	140	4
Di-n-butylphthalate	ND		ug/kg	720	140	4
Di-n-octylphthalate	ND		ug/kg	720	180	4
Diethyl phthalate	ND		ug/kg	720	150	4
Dimethyl phthalate	ND		ug/kg	720	180	4
Benzo(a)anthracene	730		ug/kg	430	140	4

Project Name: 239 10TH AVE **Lab Number:** L1402856

Project Number: 2355.0001Y000 **Report Date:** 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-01 D Date Collected: 02/04/14 11:15

Client ID: SB-6 (0-2) Date Received: 02/04/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	720		ug/kg	570	180	4
Benzo(b)fluoranthene	900		ug/kg	430	140	4
Benzo(k)fluoranthene	340	J	ug/kg	430	140	4
Chrysene	760		ug/kg	430	140	4
Acenaphthylene	220	J	ug/kg	570	130	4
Anthracene	280	J	ug/kg	430	120	4
Benzo(ghi)perylene	490	J	ug/kg	570	150	4
Fluorene	ND		ug/kg	720	200	4
Phenanthrene	510		ug/kg	430	140	4
Dibenzo(a,h)anthracene	ND		ug/kg	430	140	4
Indeno(1,2,3-cd)Pyrene	470	J	ug/kg	570	160	4
Pyrene	1000		ug/kg	430	140	4
Biphenyl	ND		ug/kg	1600	240	4
4-Chloroaniline	ND		ug/kg	720	190	4
2-Nitroaniline	ND		ug/kg	720	200	4
3-Nitroaniline	ND		ug/kg	720	200	4
4-Nitroaniline	ND		ug/kg	720	190	4
Dibenzofuran	ND		ug/kg	720	240	4
2-Methylnaphthalene	ND		ug/kg	860	230	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	720	220	4
Acetophenone	ND		ug/kg	720	220	4
2,4,6-Trichlorophenol	ND		ug/kg	430	140	4
P-Chloro-M-Cresol	ND		ug/kg	720	210	4
2-Chlorophenol	ND		ug/kg	720	220	4
2,4-Dichlorophenol	ND		ug/kg	650	230	4
2,4-Dimethylphenol	ND		ug/kg	720	210	4
2-Nitrophenol	ND		ug/kg	1600	220	4
4-Nitrophenol	ND		ug/kg	1000	230	4
2,4-Dinitrophenol	ND		ug/kg	3400	980	4
4,6-Dinitro-o-cresol	ND		ug/kg	1900	260	4
Pentachlorophenol	ND		ug/kg	570	150	4
Phenol	ND		ug/kg	720	210	4
2-Methylphenol	ND		ug/kg	720	230	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1000	240	4
2,4,5-Trichlorophenol	ND		ug/kg	720	230	4
Benzoic Acid	ND		ug/kg	2300	730	4
Benzyl Alcohol	ND		ug/kg	720	220	4
Carbazole	ND		ug/kg	720	150	4

Project Name: 239 10TH AVE **Lab Number:** L1402856

Project Number: 2355.0001Y000 **Report Date:** 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-01 D Date Collected: 02/04/14 11:15

Client ID: SB-6 (0-2) Date Received: 02/04/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**14**	Q	25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	8		0-136
4-Terphenyl-d14	60		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-02
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/07/14 14:33
Analyst: JB

Date Collected: 02/04/14 11:20
Date Received: 02/04/14
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/05/14 12:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE
Lab Number: L1402856
Project Number: 2355.0001Y000
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-02
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/04/14 11:20
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	113		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-02	Date Collected:	02/04/14 11:20
Client ID:	FIELD BLANK	Date Received:	02/04/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	02/05/14 12:38
Analytical Date:	02/06/14 13:41		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	0.08	J	ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	143		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-03	D	Date Collected:	02/04/14 13:05
Client ID:	SB-4 (0-2)		Date Received:	02/04/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	02/06/14 01:50
Analytical Date:	02/07/14 17:11			
Analyst:	JB			
Percent Solids:	91%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	580	150	4
1,2,4-Trichlorobenzene	ND		ug/kg	720	240	4
Hexachlorobenzene	ND		ug/kg	430	130	4
Bis(2-chloroethyl)ether	ND		ug/kg	650	200	4
2-Chloronaphthalene	ND		ug/kg	720	230	4
1,2-Dichlorobenzene	ND		ug/kg	720	240	4
1,3-Dichlorobenzene	ND		ug/kg	720	230	4
1,4-Dichlorobenzene	ND		ug/kg	720	220	4
3,3'-Dichlorobenzidine	ND		ug/kg	720	190	4
2,4-Dinitrotoluene	ND		ug/kg	720	160	4
2,6-Dinitrotoluene	ND		ug/kg	720	180	4
Fluoranthene	1100		ug/kg	430	130	4
4-Chlorophenyl phenyl ether	ND		ug/kg	720	220	4
4-Bromophenyl phenyl ether	ND		ug/kg	720	160	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	860	250	4
Bis(2-chloroethoxy)methane	ND		ug/kg	780	220	4
Hexachlorobutadiene	ND		ug/kg	720	200	4
Hexachlorocyclopentadiene	ND		ug/kg	2100	460	4
Hexachloroethane	ND		ug/kg	580	130	4
Isophorone	ND		ug/kg	650	190	4
Naphthalene	ND		ug/kg	720	240	4
Nitrobenzene	ND		ug/kg	650	170	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	580	150	4
n-Nitrosodi-n-propylamine	ND		ug/kg	720	210	4
Bis(2-Ethylhexyl)phthalate	350	J	ug/kg	720	190	4
Butyl benzyl phthalate	ND		ug/kg	720	140	4
Di-n-butylphthalate	ND		ug/kg	720	140	4
Di-n-octylphthalate	ND		ug/kg	720	180	4
Diethyl phthalate	ND		ug/kg	720	150	4
Dimethyl phthalate	ND		ug/kg	720	180	4
Benzo(a)anthracene	760		ug/kg	430	140	4

Project Name: 239 10TH AVE **Lab Number:** L1402856

Project Number: 2355.0001Y000 **Report Date:** 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-03 D Date Collected: 02/04/14 13:05

Client ID: SB-4 (0-2) Date Received: 02/04/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	870		ug/kg	580	180	4
Benzo(b)fluoranthene	1100		ug/kg	430	140	4
Benzo(k)fluoranthene	460		ug/kg	430	140	4
Chrysene	830		ug/kg	430	140	4
Acenaphthylene	180	J	ug/kg	580	130	4
Anthracene	170	J	ug/kg	430	120	4
Benzo(ghi)perylene	650		ug/kg	580	150	4
Fluorene	ND		ug/kg	720	210	4
Phenanthrene	440		ug/kg	430	140	4
Dibenzo(a,h)anthracene	150	J	ug/kg	430	140	4
Indeno(1,2,3-cd)Pyrene	670		ug/kg	580	160	4
Pyrene	870		ug/kg	430	140	4
Biphenyl	ND		ug/kg	1600	240	4
4-Chloroaniline	ND		ug/kg	720	190	4
2-Nitroaniline	ND		ug/kg	720	200	4
3-Nitroaniline	ND		ug/kg	720	200	4
4-Nitroaniline	ND		ug/kg	720	190	4
Dibenzofuran	ND		ug/kg	720	240	4
2-Methylnaphthalene	ND		ug/kg	860	230	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	720	220	4
Acetophenone	ND		ug/kg	720	220	4
2,4,6-Trichlorophenol	ND		ug/kg	430	140	4
P-Chloro-M-Cresol	ND		ug/kg	720	210	4
2-Chlorophenol	ND		ug/kg	720	220	4
2,4-Dichlorophenol	ND		ug/kg	650	230	4
2,4-Dimethylphenol	ND		ug/kg	720	210	4
2-Nitrophenol	ND		ug/kg	1600	220	4
4-Nitrophenol	ND		ug/kg	1000	230	4
2,4-Dinitrophenol	ND		ug/kg	3400	980	4
4,6-Dinitro-o-cresol	ND		ug/kg	1900	260	4
Pentachlorophenol	ND		ug/kg	580	150	4
Phenol	ND		ug/kg	720	210	4
2-Methylphenol	ND		ug/kg	720	230	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1000	240	4
2,4,5-Trichlorophenol	ND		ug/kg	720	230	4
Benzoic Acid	ND		ug/kg	2300	730	4
Benzyl Alcohol	ND		ug/kg	720	220	4
Carbazole	ND		ug/kg	720	150	4

Project Name: 239 10TH AVE
Lab Number: L1402856
Project Number: 2355.0001Y000
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-03 D
Client ID: SB-4 (0-2)
Sample Location: NEW YORK, NY

Date Collected: 02/04/14 13:05
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**10**	Q	25-120
Phenol-d6	46		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	3		0-136
4-Terphenyl-d14	62		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-04	D	Date Collected:	02/04/14 12:00
Client ID:	DUP-020414		Date Received:	02/04/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	02/06/14 01:50
Analytical Date:	02/07/14 17:37			
Analyst:	JB			
Percent Solids:	90%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	580	150	4
1,2,4-Trichlorobenzene	ND		ug/kg	720	240	4
Hexachlorobenzene	ND		ug/kg	430	130	4
Bis(2-chloroethyl)ether	ND		ug/kg	650	200	4
2-Chloronaphthalene	ND		ug/kg	720	240	4
1,2-Dichlorobenzene	ND		ug/kg	720	240	4
1,3-Dichlorobenzene	ND		ug/kg	720	230	4
1,4-Dichlorobenzene	ND		ug/kg	720	220	4
3,3'-Dichlorobenzidine	ND		ug/kg	720	190	4
2,4-Dinitrotoluene	ND		ug/kg	720	160	4
2,6-Dinitrotoluene	ND		ug/kg	720	180	4
Fluoranthene	800		ug/kg	430	130	4
4-Chlorophenyl phenyl ether	ND		ug/kg	720	220	4
4-Bromophenyl phenyl ether	ND		ug/kg	720	160	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	860	250	4
Bis(2-chloroethoxy)methane	ND		ug/kg	780	220	4
Hexachlorobutadiene	ND		ug/kg	720	200	4
Hexachlorocyclopentadiene	ND		ug/kg	2100	460	4
Hexachloroethane	ND		ug/kg	580	130	4
Isophorone	ND		ug/kg	650	190	4
Naphthalene	ND		ug/kg	720	240	4
Nitrobenzene	ND		ug/kg	650	170	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	580	150	4
n-Nitrosodi-n-propylamine	ND		ug/kg	720	210	4
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	720	190	4
Butyl benzyl phthalate	ND		ug/kg	720	140	4
Di-n-butylphthalate	ND		ug/kg	720	140	4
Di-n-octylphthalate	ND		ug/kg	720	180	4
Diethyl phthalate	ND		ug/kg	720	150	4
Dimethyl phthalate	ND		ug/kg	720	180	4
Benzo(a)anthracene	520		ug/kg	430	140	4

Project Name: 239 10TH AVE **Lab Number:** L1402856

Project Number: 2355.0001Y000 **Report Date:** 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-04 D Date Collected: 02/04/14 12:00

Client ID: DUP-020414 Date Received: 02/04/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	500	J	ug/kg	580	180	4
Benzo(b)fluoranthene	620		ug/kg	430	140	4
Benzo(k)fluoranthene	230	J	ug/kg	430	140	4
Chrysene	490		ug/kg	430	140	4
Acenaphthylene	180	J	ug/kg	580	130	4
Anthracene	160	J	ug/kg	430	120	4
Benzo(ghi)perylene	340	J	ug/kg	580	150	4
Fluorene	ND		ug/kg	720	210	4
Phenanthrene	490		ug/kg	430	140	4
Dibenzo(a,h)anthracene	ND		ug/kg	430	140	4
Indeno(1,2,3-cd)Pyrene	330	J	ug/kg	580	160	4
Pyrene	670		ug/kg	430	140	4
Biphenyl	ND		ug/kg	1600	240	4
4-Chloroaniline	ND		ug/kg	720	190	4
2-Nitroaniline	ND		ug/kg	720	200	4
3-Nitroaniline	ND		ug/kg	720	200	4
4-Nitroaniline	ND		ug/kg	720	190	4
Dibenzofuran	ND		ug/kg	720	240	4
2-Methylnaphthalene	ND		ug/kg	860	230	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	720	220	4
Acetophenone	ND		ug/kg	720	220	4
2,4,6-Trichlorophenol	ND		ug/kg	430	140	4
P-Chloro-M-Cresol	ND		ug/kg	720	210	4
2-Chlorophenol	ND		ug/kg	720	220	4
2,4-Dichlorophenol	ND		ug/kg	650	230	4
2,4-Dimethylphenol	ND		ug/kg	720	210	4
2-Nitrophenol	ND		ug/kg	1600	220	4
4-Nitrophenol	ND		ug/kg	1000	230	4
2,4-Dinitrophenol	ND		ug/kg	3500	990	4
4,6-Dinitro-o-cresol	ND		ug/kg	1900	260	4
Pentachlorophenol	ND		ug/kg	580	150	4
Phenol	ND		ug/kg	720	210	4
2-Methylphenol	ND		ug/kg	720	230	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1000	240	4
2,4,5-Trichlorophenol	ND		ug/kg	720	230	4
Benzoic Acid	ND		ug/kg	2300	730	4
Benzyl Alcohol	ND		ug/kg	720	220	4
Carbazole	ND		ug/kg	720	160	4

Project Name: 239 10TH AVE **Lab Number:** L1402856

Project Number: 2355.0001Y000 **Report Date:** 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-04 D Date Collected: 02/04/14 12:00

Client ID: DUP-020414 Date Received: 02/04/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**23**	Q	25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	14		0-136
4-Terphenyl-d14	47		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/06/14 12:03
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/05/14 12:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG668788-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/06/14 12:03
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/05/14 12:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG668788-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	134		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/14 11:00
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 02/05/14 12:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG668790-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Isophorone	ND		ug/l	5.0	0.79
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39
Dimethyl phthalate	ND		ug/l	5.0	0.33
Biphenyl	ND		ug/l	2.0	0.24
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/14 11:00
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 02/05/14 12:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG668790-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37
Benzaldehyde	ND		ug/l	5.0	0.99
Caprolactam	ND		ug/l	10	0.39
Atrazine	ND		ug/l	10	0.79
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.59
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/14 11:00
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 02/05/14 12:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG668790-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	117		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	120		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/14 11:26
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/06/14 01:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG668862-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	470	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/14 11:26
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/06/14 01:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG668862-1					
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	54.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	790	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/14 11:26
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/06/14 01:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG668862-1					
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	74		0-136
4-Terphenyl-d14	88		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG668788-2 WG668788-3								
Acenaphthene	99		92		37-111	7		40
2-Chloronaphthalene	93		94		40-140	1		40
Fluoranthene	114		109		40-140	4		40
Hexachlorobutadiene	86		86		40-140	0		40
Naphthalene	91		88		40-140	3		40
Benzo(a)anthracene	110		113		40-140	3		40
Benzo(a)pyrene	94		102		40-140	8		40
Benzo(b)fluoranthene	94		104		40-140	10		40
Benzo(k)fluoranthene	101		101		40-140	0		40
Chrysene	96		93		40-140	3		40
Acenaphthylene	105		106		40-140	1		40
Anthracene	100		94		40-140	6		40
Benzo(ghi)perylene	80		97		40-140	19		40
Fluorene	120		111		40-140	8		40
Phenanthrene	104		95		40-140	9		40
Dibenzo(a,h)anthracene	87		105		40-140	19		40
Indeno(1,2,3-cd)Pyrene	84		105		40-140	22		40
Pyrene	114		100		26-127	13		40
2-Methylnaphthalene	94		93		40-140	1		40
Pentachlorophenol	**120**	Q	**107**	Q	9-103	11		40
Hexachlorobenzene	89		89		40-140	0		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG668788-2 WG668788-3								
Hexachloroethane	92		89		40-140	3		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		55		21-120
Phenol-d6	38		38		10-120
Nitrobenzene-d5	93		91		23-120
2-Fluorobiphenyl	85		86		15-120
2,4,6-Tribromophenol	99		99		10-120
4-Terphenyl-d14	110		93		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG668790-2 WG668790-3								
1,2,4-Trichlorobenzene	68		68		39-98	0		30
Bis(2-chloroethyl)ether	69		69		40-140	0		30
1,2-Dichlorobenzene	65		64		40-140	2		30
1,3-Dichlorobenzene	64		60		40-140	6		30
1,4-Dichlorobenzene	64		61		36-97	5		30
3,3'-Dichlorobenzidine	66		72		40-140	9		30
2,4-Dinitrotoluene	94		91		24-96	3		30
2,6-Dinitrotoluene	101		103		40-140	2		30
4-Chlorophenyl phenyl ether	95		92		40-140	3		30
4-Bromophenyl phenyl ether	106		101		40-140	5		30
Bis(2-chloroisopropyl)ether	57		56		40-140	2		30
Bis(2-chloroethoxy)methane	78		81		40-140	4		30
Hexachlorocyclopentadiene	58		57		40-140	2		30
Isophorone	81		81		40-140	0		30
Nitrobenzene	72		72		40-140	0		30
NitrosoDiPhenylAmine(NDPA)/DPA	97		95		40-140	2		30
n-Nitrosodi-n-propylamine	81		81		29-132	0		30
Bis(2-Ethylhexyl)phthalate	91		86		40-140	6		30
Butyl benzyl phthalate	90		94		40-140	4		30
Di-n-butylphthalate	90		89		40-140	1		30
Di-n-octylphthalate	90		89		40-140	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG668790-2 WG668790-3								
Diethyl phthalate	96		95		40-140	1		30
Dimethyl phthalate	92		91		40-140	1		30
Biphenyl	81		79			3		30
4-Chloroaniline	49		55		40-140	12		30
2-Nitroaniline	101		98		52-143	3		30
3-Nitroaniline	61		68		25-145	11		30
4-Nitroaniline	93		94		51-143	1		30
Dibenzofuran	90		86		40-140	5		30
1,2,4,5-Tetrachlorobenzene	74		72		2-134	3		30
Acetophenone	87		86		39-129	1		30
2,4,6-Trichlorophenol	103		100		30-130	3		30
P-Chloro-M-Cresol	93		91		23-97	2		30
2-Chlorophenol	80		78		27-123	3		30
2,4-Dichlorophenol	90		93		30-130	3		30
2,4-Dimethylphenol	88		84		30-130	5		30
2-Nitrophenol	88		88		30-130	0		30
4-Nitrophenol	46		44		10-80	4		30
2,4-Dinitrophenol	78		80		20-130	3		30
4,6-Dinitro-o-cresol	96		96		20-164	0		30
Phenol	38		36		12-110	5		30
2-Methylphenol	79		76		30-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG668790-2 WG668790-3								
3-Methylphenol/4-Methylphenol	82		77		30-130	6		30
2,4,5-Trichlorophenol	110		109		30-130	1		30
Benzoic Acid	34		39			14		30
Benzyl Alcohol	71		72			1		30
Carbazole	92		92		55-144	0		30
Benzaldehyde	79		75		40-140	5		30
Caprolactam	23		26		10-130	12		30
Atrazine	115		111		40-140	4		30
2,3,4,6-Tetrachlorophenol	101		101		54-145	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		52		21-120
Phenol-d6	33		33		10-120
Nitrobenzene-d5	86		79		23-120
2-Fluorobiphenyl	94		92		15-120
2,4,6-Tribromophenol	91		81		10-120
4-Terphenyl-d14	96		95		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG668862-2 WG668862-3								
Acenaphthene	91		92		31-137	1		50
1,2,4-Trichlorobenzene	87		85		38-107	2		50
Hexachlorobenzene	93		96		40-140	3		50
Bis(2-chloroethyl)ether	85		79		40-140	7		50
2-Chloronaphthalene	94		86		40-140	9		50
1,2-Dichlorobenzene	84		79		40-140	6		50
1,3-Dichlorobenzene	81		79		40-140	3		50
1,4-Dichlorobenzene	83		79		28-104	5		50
3,3'-Dichlorobenzidine	40		45		40-140	12		50
2,4-Dinitrotoluene	**102**	Q	**104**	Q	28-89	2		50
2,6-Dinitrotoluene	103		97		40-140	6		50
Fluoranthene	99		103		40-140	4		50
4-Chlorophenyl phenyl ether	93		95		40-140	2		50
4-Bromophenyl phenyl ether	98		100		40-140	2		50
Bis(2-chloroisopropyl)ether	80		73		40-140	9		50
Bis(2-chloroethoxy)methane	89		79		40-117	12		50
Hexachlorobutadiene	87		84		40-140	4		50
Hexachlorocyclopentadiene	77		75		40-140	3		50
Hexachloroethane	83		80		40-140	4		50
Isophorone	90		82		40-140	9		50
Naphthalene	87		82		40-140	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG668862-2 WG668862-3								
Nitrobenzene	88		81		40-140	8		50
NitrosoDiPhenylAmine(NDPA)/DPA	99		100			1		50
n-Nitrosodi-n-propylamine	91		81		32-121	12		50
Bis(2-Ethylhexyl)phthalate	105		111		40-140	6		50
Butyl benzyl phthalate	106		112		40-140	6		50
Di-n-butylphthalate	104		109		40-140	5		50
Di-n-octylphthalate	100		106		40-140	6		50
Diethyl phthalate	99		101		40-140	2		50
Dimethyl phthalate	96		97		40-140	1		50
Benzo(a)anthracene	100		104		40-140	4		50
Benzo(a)pyrene	98		102		40-140	4		50
Benzo(b)fluoranthene	101		103		40-140	2		50
Benzo(k)fluoranthene	98		103		40-140	5		50
Chrysene	97		101		40-140	4		50
Acenaphthylene	95		90		40-140	5		50
Anthracene	98		102		40-140	4		50
Benzo(ghi)perylene	97		107		40-140	10		50
Fluorene	94		95		40-140	1		50
Phenanthrene	95		97		40-140	2		50
Dibenzo(a,h)anthracene	97		108		40-140	11		50
Indeno(1,2,3-cd)Pyrene	94		105		40-140	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG668862-2 WG668862-3								
Pyrene	96		102		35-142	6		50
Biphenyl	93		93			0		50
4-Chloroaniline	80		52		40-140	42		50
2-Nitroaniline	101		95		47-134	6		50
3-Nitroaniline	47		49		26-129	4		50
4-Nitroaniline	96		98		41-125	2		50
Dibenzofuran	92		92		40-140	0		50
2-Methylnaphthalene	90		84		40-140	7		50
1,2,4,5-Tetrachlorobenzene	90		91		40-117	1		50
Acetophenone	94		86		14-144	9		50
2,4,6-Trichlorophenol	101		97		30-130	4		50
P-Chloro-M-Cresol	100		94		26-103	6		50
2-Chlorophenol	95		87		25-102	9		50
2,4-Dichlorophenol	101		96		30-130	5		50
2,4-Dimethylphenol	92		83		30-130	10		50
2-Nitrophenol	94		85		30-130	10		50
4-Nitrophenol	96		100		11-114	4		50
2,4-Dinitrophenol	71		81		4-130	13		50
4,6-Dinitro-o-cresol	98		101		10-130	3		50
Pentachlorophenol	84		88		17-109	5		50
Phenol	**94**	Q	86		26-90	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG668862-2 WG668862-3								
2-Methylphenol	96		85		30-130.	12		50
3-Methylphenol/4-Methylphenol	101		92		30-130	9		50
2,4,5-Trichlorophenol	104		99		30-130	5		50
Benzoic Acid	33		39			17		50
Benzyl Alcohol	87		78		40-140	11		50
Carbazole	99		103		54-128	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	96		88		25-120
Phenol-d6	94		84		10-120
Nitrobenzene-d5	85		77		23-120
2-Fluorobiphenyl	91		84		30-120
2,4,6-Tribromophenol	98		103		0-136
4-Terphenyl-d14	95		98		18-120

PCBS

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-01	Date Collected:	02/04/14 11:15
Client ID:	SB-6 (0-2)	Date Received:	02/04/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/05/14 17:11
Analytical Date:	02/07/14 19:46	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/06/14
Percent Solids:	92%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/06/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.5	2.72	1	A
Aroclor 1221	ND		ug/kg	34.5	3.18	1	A
Aroclor 1232	ND		ug/kg	34.5	4.04	1	A
Aroclor 1242	ND		ug/kg	34.5	4.22	1	A
Aroclor 1248	ND		ug/kg	34.5	2.91	1	A
Aroclor 1254	376		ug/kg	34.5	2.83	1	B
Aroclor 1260	ND		ug/kg	34.5	2.63	1	A
Aroclor 1262	ND		ug/kg	34.5	1.71	1	A
Aroclor 1268	ND		ug/kg	34.5	5.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-02	Date Collected:	02/04/14 11:20
Client ID:	FIELD BLANK	Date Received:	02/04/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/05/14 09:16
Analytical Date:	02/06/14 15:34	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/06/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/06/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-03	D	Date Collected:	02/04/14 13:05
Client ID:	SB-4 (0-2)		Date Received:	02/04/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8082A		Extraction Date:	02/05/14 17:11
Analytical Date:	02/08/14 11:44		Cleanup Method1:	EPA 3665A
Analyst:	JW		Cleanup Date1:	02/06/14
Percent Solids:	91%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	02/06/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	70.6	5.58	2	A
Aroclor 1221	ND		ug/kg	70.6	6.51	2	A
Aroclor 1232	ND		ug/kg	70.6	8.28	2	A
Aroclor 1242	486		ug/kg	70.6	8.64	2	A
Aroclor 1248	ND		ug/kg	70.6	5.96	2	A
Aroclor 1254	319		ug/kg	70.6	5.80	2	B
Aroclor 1260	ND		ug/kg	70.6	5.38	2	A
Aroclor 1262	ND		ug/kg	70.6	3.50	2	A
Aroclor 1268	ND		ug/kg	70.6	10.2	2	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-04	Date Collected:	02/04/14 12:00
Client ID:	DUP-020414	Date Received:	02/04/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/05/14 17:11
Analytical Date:	02/07/14 20:10	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/06/14
Percent Solids:	90%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/06/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	2.76	1	A
Aroclor 1221	ND		ug/kg	34.9	3.22	1	A
Aroclor 1232	ND		ug/kg	34.9	4.09	1	A
Aroclor 1242	ND		ug/kg	34.9	4.27	1	A
Aroclor 1248	ND		ug/kg	34.9	2.95	1	A
Aroclor 1254	171		ug/kg	34.9	2.87	1	B
Aroclor 1260	ND		ug/kg	34.9	2.66	1	A
Aroclor 1262	ND		ug/kg	34.9	1.73	1	A
Aroclor 1268	ND		ug/kg	34.9	5.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/06/14 15:59
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 02/05/14 09:16
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/06/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/06/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG668726-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/07/14 18:32
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 02/05/14 15:29
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/06/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/06/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03-04 Batch: WG668820-1						
Aroclor 1016	ND		ug/kg	31.9	2.52	A
Aroclor 1221	ND		ug/kg	31.9	2.94	A
Aroclor 1232	ND		ug/kg	31.9	3.74	A
Aroclor 1242	ND		ug/kg	31.9	3.91	A
Aroclor 1248	ND		ug/kg	31.9	2.69	A
Aroclor 1254	ND		ug/kg	31.9	2.62	A
Aroclor 1260	ND		ug/kg	31.9	2.43	A
Aroclor 1262	ND		ug/kg	31.9	1.58	A
Aroclor 1268	ND		ug/kg	31.9	4.63	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	136		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	102		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG668726-2 WG668726-3									
Aroclor 1016	54		58		40-140	8		50	A
Aroclor 1260	61		63		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		56		30-150	A
Decachlorobiphenyl	69		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		52		30-150	B
Decachlorobiphenyl	54		59		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03-04 Batch: WG668820-2 WG668820-3									
Aroclor 1016	83		85		40-140	2		50	A
Aroclor 1260	85		82		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		80		30-150	A
Decachlorobiphenyl	103		98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		85		30-150	B
Decachlorobiphenyl	100		105		30-150	B

PESTICIDES

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-01	Date Collected:	02/04/14 11:15
Client ID:	SB-6 (0-2)	Date Received:	02/04/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/06/14 15:59
Analytical Date:	02/10/14 16:29	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/07/14
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.328	1	A
Lindane	ND		ug/kg	0.698	0.312	1	A
Alpha-BHC	ND		ug/kg	0.698	0.198	1	A
Beta-BHC	ND		ug/kg	1.68	0.635	1	A
Heptachlor	4.00		ug/kg	0.838	0.376	1	B
Aldrin	0.775	J	ug/kg	1.68	0.590	1	B
Heptachlor epoxide	6.38		ug/kg	3.14	0.943	1	B
Endrin	ND		ug/kg	0.698	0.286	1	A
Endrin ketone	ND		ug/kg	1.68	0.432	1	A
Dieldrin	7.28		ug/kg	1.05	0.524	1	A
4,4'-DDE	5.81		ug/kg	1.68	0.388	1	A
4,4'-DDD	ND		ug/kg	1.68	0.598	1	A
4,4'-DDT	8.96	P	ug/kg	3.14	1.35	1	B
Endosulfan I	ND		ug/kg	1.68	0.396	1	A
Endosulfan II	5.39	P	ug/kg	1.68	0.560	1	B
Endosulfan sulfate	ND		ug/kg	0.698	0.319	1	A
Methoxychlor	ND		ug/kg	3.14	0.978	1	A
Toxaphene	ND		ug/kg	31.4	8.80	1	A
cis-Chlordane	25.5	P	ug/kg	2.09	0.584	1	A
trans-Chlordane	15.6		ug/kg	2.09	0.553	1	B
Chlordane	158		ug/kg	13.6	5.55	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-02	Date Collected:	02/04/14 11:20
Client ID:	FIELD BLANK	Date Received:	02/04/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/05/14 09:17
Analytical Date:	02/07/14 18:30	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-03	Date Collected:	02/04/14 13:05
Client ID:	SB-4 (0-2)	Date Received:	02/04/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/06/14 16:13
Analytical Date:	02/10/14 16:42	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/07/14
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	3.02	P	ug/kg	0.704	0.315	1	A
Alpha-BHC	ND		ug/kg	0.704	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.641	1	A
Heptachlor	5.26	P	ug/kg	0.845	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.595	1	A
Heptachlor epoxide	9.10	P	ug/kg	3.17	0.950	1	B
Endrin	ND		ug/kg	0.704	0.289	1	A
Endrin ketone	ND		ug/kg	1.69	0.435	1	A
Dieldrin	4.77		ug/kg	1.06	0.528	1	A
4,4'-DDE	4.76	P	ug/kg	1.69	0.391	1	A
4,4'-DDD	ND		ug/kg	1.69	0.603	1	A
4,4'-DDT	7.38	P	ug/kg	3.17	1.36	1	B
Endosulfan I	ND		ug/kg	1.69	0.399	1	A
Endosulfan II	4.99	P	ug/kg	1.69	0.564	1	B
Endosulfan sulfate	ND		ug/kg	0.704	0.322	1	A
Methoxychlor	ND		ug/kg	3.17	0.986	1	A
Toxaphene	ND		ug/kg	31.7	8.87	1	A
cis-Chlordane	15.5	P	ug/kg	2.11	0.588	1	A
trans-Chlordane	9.13		ug/kg	2.11	0.558	1	A
Chlordane	114		ug/kg	13.7	5.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID:	L1402856-04	Date Collected:	02/04/14 12:00
Client ID:	DUP-020414	Date Received:	02/04/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/06/14 16:13
Analytical Date:	02/10/14 16:55	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/07/14
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.707	0.316	1	A
Alpha-BHC	ND		ug/kg	0.707	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.643	1	A
Heptachlor	2.82		ug/kg	0.848	0.380	1	B
Aldrin	ND		ug/kg	1.70	0.597	1	A
Heptachlor epoxide	4.65		ug/kg	3.18	0.954	1	B
Endrin	ND		ug/kg	0.707	0.290	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	5.50		ug/kg	1.06	0.530	1	A
4,4'-DDE	4.60		ug/kg	1.70	0.392	1	A
4,4'-DDD	ND		ug/kg	1.70	0.605	1	A
4,4'-DDT	6.66	P	ug/kg	3.18	1.36	1	B
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.567	1	A
Endosulfan sulfate	ND		ug/kg	0.707	0.323	1	A
Methoxychlor	ND		ug/kg	3.18	0.990	1	A
Toxaphene	ND		ug/kg	31.8	8.91	1	A
cis-Chlordane	23.4	P	ug/kg	2.12	0.591	1	A
trans-Chlordane	13.7		ug/kg	2.12	0.560	1	A
Chlordane	128		ug/kg	13.8	5.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/07/14 17:51
Analyst: SH

Extraction Method: EPA 3510C
Extraction Date: 02/05/14 09:17
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG668727-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/07/14 21:02
Analyst: SH

Extraction Method: EPA 3546
Extraction Date: 02/06/14 15:59
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03-04 Batch: WG669050-1						
Delta-BHC	ND		ug/kg	1.53	0.299	A
Lindane	ND		ug/kg	0.636	0.284	A
Alpha-BHC	ND		ug/kg	0.636	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.579	A
Heptachlor	ND		ug/kg	0.763	0.342	A
Aldrin	ND		ug/kg	1.53	0.538	A
Heptachlor epoxide	ND		ug/kg	2.86	0.859	A
Endrin	ND		ug/kg	0.636	0.261	A
Endrin ketone	ND		ug/kg	1.53	0.393	A
Dieldrin	ND		ug/kg	0.954	0.477	A
4,4'-DDE	ND		ug/kg	1.53	0.353	A
4,4'-DDD	ND		ug/kg	1.53	0.544	A
4,4'-DDT	ND		ug/kg	2.86	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.361	A
Endosulfan II	ND		ug/kg	1.53	0.510	A
Endosulfan sulfate	ND		ug/kg	0.636	0.291	A
Methoxychlor	ND		ug/kg	2.86	0.890	A
Toxaphene	ND		ug/kg	28.6	8.02	A
cis-Chlordane	ND		ug/kg	1.91	0.532	A
trans-Chlordane	ND		ug/kg	1.91	0.504	A
Chlordane	ND		ug/kg	12.4	5.06	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG668727-2 WG668727-3									
Delta-BHC	59		84		30-150	**35**	Q	20	A
Lindane	61		85		30-150	**34**	Q	20	A
Alpha-BHC	59		83		30-150	**33**	Q	20	A
Beta-BHC	62		84		30-150	**30**	Q	20	A
Heptachlor	47		67		30-150	**34**	Q	20	A
Aldrin	45		64		30-150	**34**	Q	20	A
Heptachlor epoxide	58		82		30-150	**35**	Q	20	A
Endrin	60		85		30-150	**35**	Q	20	A
Endrin ketone	49		73		30-150	**39**	Q	20	A
Dieldrin	59		84		30-150	**36**	Q	20	A
4,4'-DDE	55		79		30-150	**35**	Q	20	A
4,4'-DDD	57		82		30-150	**36**	Q	20	A
4,4'-DDT	58		83		30-150	**36**	Q	20	A
Endosulfan I	57		81		30-150	**35**	Q	20	A
Endosulfan II	56		81		30-150	**36**	Q	20	A
Endosulfan sulfate	47		71		30-150	**41**	Q	20	A
Methoxychlor	50		74		30-150	**38**	Q	20	A
cis-Chlordane	56		79		30-150	**35**	Q	20	A
trans-Chlordane	53		75		30-150	**34**	Q	20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG668727-2 WG668727-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		58		30-150	A
Decachlorobiphenyl	48		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	39		50		30-150	B
Decachlorobiphenyl	51		70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669050-2 WG669050-3									
Delta-BHC	68		74		30-150	8		30	A
Lindane	69		75		30-150	8		30	A
Alpha-BHC	67		74		30-150	10		30	A
Beta-BHC	71		75		30-150	5		30	A
Heptachlor	65		72		30-150	10		30	A
Aldrin	69		76		30-150	10		30	A
Heptachlor epoxide	65		71		30-150	9		30	A
Endrin	66		73		30-150	10		30	A
Endrin ketone	54		60		30-150	11		30	A
Dieldrin	66		72		30-150	9		30	A
4,4'-DDE	64		70		30-150	9		30	A
4,4'-DDD	63		69		30-150	9		30	A
4,4'-DDT	63		69		30-150	9		30	A
Endosulfan I	64		71		30-150	10		30	A
Endosulfan II	61		68		30-150	11		30	A
Endosulfan sulfate	52		57		30-150	9		30	A
Methoxychlor	53		60		30-150	12		30	A
cis-Chlordane	64		70		30-150	9		30	A
trans-Chlordane	62		69		30-150	11		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669050-2 WG669050-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		76		30-150	A
Decachlorobiphenyl	63		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		68		30-150	B
Decachlorobiphenyl	65		63		30-150	B

METALS

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-01
Client ID: SB-6 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 92%

Date Collected: 02/04/14 11:15
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4500		mg/kg	8.5	1.7	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.3	0.68	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Arsenic, Total	7.0		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Barium, Total	33		mg/kg	0.85	0.26	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Beryllium, Total	0.16	J	mg/kg	0.43	0.09	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.85	0.06	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Calcium, Total	42000		mg/kg	8.5	2.6	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Chromium, Total	25		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Cobalt, Total	2.6		mg/kg	1.7	0.43	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Copper, Total	15		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Iron, Total	6200		mg/kg	4.3	1.7	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Lead, Total	28		mg/kg	4.3	0.17	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Magnesium, Total	2900		mg/kg	8.5	0.85	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Manganese, Total	110		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.07	0.02	1	02/10/14 10:13	02/10/14 12:53	EPA 7471B	1,7471B	MC
Nickel, Total	7.2		mg/kg	2.1	0.34	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Potassium, Total	780		mg/kg	210	34.	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Sodium, Total	440		mg/kg	170	26.	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Vanadium, Total	15		mg/kg	0.85	0.09	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT
Zinc, Total	36		mg/kg	4.3	0.60	2	02/06/14 10:48	02/06/14 22:13	EPA 3050B	1,6010C	TT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-02
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/04/14 11:20
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Antimony, Total	0.00010	J	mg/l	0.00100	0.00010	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Barium, Total	0.00013	J	mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Calcium, Total	ND		mg/l	0.100	0.0320	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Chromium, Total	0.00051	J	mg/l	0.00100	0.00020	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Copper, Total	0.00032	J	mg/l	0.00100	0.00010	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Iron, Total	0.0140	J	mg/l	0.0500	0.0130	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Manganese, Total	0.00037	J	mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/06/14 07:51	02/06/14 10:37	EPA 7470A	1,7470A	AK
Nickel, Total	0.00015	J	mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Selenium, Total	0.00040	J	mg/l	0.00500	0.00030	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Sodium, Total	0.0441	J	mg/l	0.100	0.0150	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	02/06/14 15:01	02/07/14 21:48	EPA 3005A	1,6020A	BM

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-03
Client ID: SB-4 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 02/04/14 13:05
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4400		mg/kg	8.3	1.7	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.2	0.66	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Arsenic, Total	10		mg/kg	0.83	0.17	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Barium, Total	30		mg/kg	0.83	0.25	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Beryllium, Total	0.15	J	mg/kg	0.42	0.08	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.83	0.06	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Calcium, Total	52000		mg/kg	8.3	2.5	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Chromium, Total	31		mg/kg	0.83	0.17	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Cobalt, Total	3.1		mg/kg	1.7	0.42	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Copper, Total	29		mg/kg	0.83	0.17	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Iron, Total	7900		mg/kg	4.2	1.7	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Lead, Total	21		mg/kg	4.2	0.17	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Magnesium, Total	10000		mg/kg	8.3	0.83	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Manganese, Total	110		mg/kg	0.83	0.17	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/10/14 10:13	02/10/14 12:58	EPA 7471B	1,7471B	MC
Nickel, Total	7.8		mg/kg	2.1	0.33	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Potassium, Total	790		mg/kg	210	33.	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.25	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.83	0.17	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Sodium, Total	490		mg/kg	170	25.	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.33	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Vanadium, Total	14		mg/kg	0.83	0.08	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT
Zinc, Total	32		mg/kg	4.2	0.58	2	02/06/14 10:48	02/06/14 23:06	EPA 3050B	1,6010C	TT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-04
Client ID: DUP-020414
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 90%

Date Collected: 02/04/14 12:00
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4500		mg/kg	8.5	1.7	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.2	0.68	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Arsenic, Total	7.8		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Barium, Total	33		mg/kg	0.85	0.26	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Beryllium, Total	0.16	J	mg/kg	0.42	0.09	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.85	0.06	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Calcium, Total	44000		mg/kg	8.5	2.6	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Chromium, Total	20		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Cobalt, Total	2.7		mg/kg	1.7	0.42	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Copper, Total	14		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Iron, Total	6900		mg/kg	4.2	1.7	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Lead, Total	30		mg/kg	4.2	0.17	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Magnesium, Total	5700		mg/kg	8.5	0.85	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Manganese, Total	110		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	02/10/14 10:13	02/10/14 13:00	EPA 7471B	1,7471B	MC
Nickel, Total	7.0		mg/kg	2.1	0.34	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Potassium, Total	750		mg/kg	210	34.	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.85	0.17	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Sodium, Total	400		mg/kg	170	26.	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Vanadium, Total	16		mg/kg	0.85	0.09	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT
Zinc, Total	37		mg/kg	4.2	0.60	2	02/06/14 10:48	02/06/14 22:36	EPA 3050B	1,6010C	TT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02 Batch: WG668880-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/06/14 07:51	02/06/14 10:21	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01,03-04 Batch: WG668939-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Antimony, Total	ND		mg/kg	2.0	0.32	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Arsenic, Total	0.10	J	mg/kg	0.40	0.08	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Barium, Total	ND		mg/kg	0.40	0.12	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Beryllium, Total	ND		mg/kg	0.20	0.04	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.40	0.03	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Calcium, Total	ND		mg/kg	4.0	1.2	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Chromium, Total	ND		mg/kg	0.40	0.08	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Cobalt, Total	ND		mg/kg	0.80	0.20	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Copper, Total	ND		mg/kg	0.40	0.08	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Iron, Total	1.5	J	mg/kg	2.0	0.80	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Lead, Total	ND		mg/kg	2.0	0.08	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Magnesium, Total	ND		mg/kg	4.0	0.40	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Manganese, Total	0.09	J	mg/kg	0.40	0.08	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Nickel, Total	ND		mg/kg	1.0	0.16	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Potassium, Total	ND		mg/kg	100	16.	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Selenium, Total	ND		mg/kg	0.80	0.12	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Silver, Total	ND		mg/kg	0.40	0.08	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Sodium, Total	ND		mg/kg	80	12.	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Thallium, Total	ND		mg/kg	0.80	0.16	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Vanadium, Total	ND		mg/kg	0.40	0.04	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT
Zinc, Total	ND		mg/kg	2.0	0.28	1	02/06/14 10:48	02/06/14 20:24	1,6010C	TT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02 Batch: WG669015-1										
Aluminum, Total	0.00235	J	mg/l	0.0100	0.00200	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Calcium, Total	ND		mg/l	0.100	0.0320	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Chromium, Total	0.00044	J	mg/l	0.00100	0.00020	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Copper, Total	ND		mg/l	0.00100	0.00010	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Manganese, Total	ND		mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Nickel, Total	0.00010	J	mg/l	0.00050	0.00010	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Sodium, Total	0.0539	J	mg/l	0.100	0.0150	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	02/06/14 15:01	02/07/14 21:29	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402856
Report Date: 02/11/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01,03-04 Batch: WG669463-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/10/14 10:13	02/10/14 12:07	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02 Batch: WG668880-2								
Mercury, Total	102		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 Batch: WG668939-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	78	-	29-171	-	
Antimony, Total	112	-	4-196	-	
Arsenic, Total	100	-	81-119	-	
Barium, Total	92	-	83-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	94	-	82-117	-	
Calcium, Total	87	-	83-117	-	
Chromium, Total	97	-	80-119	-	
Cobalt, Total	98	-	83-117	-	
Copper, Total	101	-	83-117	-	
Iron, Total	94	-	51-150	-	
Lead, Total	95	-	80-120	-	
Magnesium, Total	92	-	74-126	-	
Manganese, Total	92	-	83-117	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	91	-	74-126	-	
Selenium, Total	98	-	80-120	-	
Silver, Total	100	-	66-134	-	
Sodium, Total	92	-	74-127	-	
Thallium, Total	106	-	79-120	-	
Vanadium, Total	98	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 Batch: WG668939-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02 Batch: WG669015-2					
Aluminum, Total	108	-	80-120	-	
Antimony, Total	90	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	98	-	80-120	-	
Beryllium, Total	96	-	80-120	-	
Cadmium, Total	98	-	80-120	-	
Calcium, Total	103	-	80-120	-	
Chromium, Total	102	-	80-120	-	
Cobalt, Total	108	-	80-120	-	
Copper, Total	102	-	80-120	-	
Iron, Total	105	-	80-120	-	
Lead, Total	103	-	80-120	-	
Magnesium, Total	108	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Nickel, Total	102	-	80-120	-	
Potassium, Total	103	-	80-120	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	97	-	80-120	-	
Sodium, Total	108	-	80-120	-	
Thallium, Total	99	-	80-120	-	
Vanadium, Total	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402856

Report Date: 02/11/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02 Batch: WG669015-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669463-2 SRM Lot Number: 0518-10-02					
Mercury, Total	130	-	67-133	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02 QC Batch ID: WG668880-4 QC Sample: L1402867-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00526	105		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG668939-4 QC Sample: L1402843-01 Client ID: MS Sample										
Aluminum, Total	1200	221	1400	90		-	-	75-125	-	35
Antimony, Total	1.6J	55.2	53	96		-	-	75-125	-	35
Arsenic, Total	5.4	13.2	17	88		-	-	75-125	-	35
Barium, Total	21.	221	220	90		-	-	75-125	-	35
Beryllium, Total	0.15J	5.52	5.3	96		-	-	75-125	-	35
Cadmium, Total	ND	5.63	5.2	92		-	-	75-125	-	35
Calcium, Total	4300	1100	7400	**281**	Q	-	-	75-125	-	35
Chromium, Total	6.0	22.1	27	95		-	-	75-125	-	35
Cobalt, Total	5.4	55.2	55	90		-	-	75-125	-	35
Copper, Total	19.	27.6	44	90		-	-	75-125	-	35
Iron, Total	3200	110	2900	**0**	Q	-	-	75-125	-	35
Lead, Total	28.	56.3	78	89		-	-	75-125	-	35
Magnesium, Total	920	1100	3500	**234**	Q	-	-	75-125	-	35
Manganese, Total	32.	55.2	81	89		-	-	75-125	-	35
Nickel, Total	11.	55.2	59	87		-	-	75-125	-	35
Potassium, Total	200J	1100	1200	109		-	-	75-125	-	35
Selenium, Total	0.80J	13.2	13	98		-	-	75-125	-	35
Silver, Total	ND	33.1	32	96		-	-	75-125	-	35
Sodium, Total	96.J	1100	1100	100		-	-	75-125	-	35
Thallium, Total	ND	13.2	12	90		-	-	75-125	-	35
Vanadium, Total	7.7	55.2	63	100		-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG668939-4 QC Sample: L1402843-01 Client ID: MS Sample									
Zinc, Total	12.	55.2	65	96	-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02 QC Batch ID: WG669015-4 QC Sample: L1402867-02 Client ID: MS Sample										
Aluminum, Total	0.00588J	2	2.08	104		-	-	75-125	-	20
Antimony, Total	0.00032J	0.5	0.4796	96		-	-	75-125	-	20
Arsenic, Total	0.00029J	0.12	0.1270	106		-	-	75-125	-	20
Barium, Total	0.05858	2	2.082	101		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.04888	98		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05236	103		-	-	75-125	-	20
Calcium, Total	119.	10	122	**30**	Q	-	-	75-125	-	20
Chromium, Total	0.00061J	0.2	0.2084	104		-	-	75-125	-	20
Cobalt, Total	0.00026J	0.5	0.5382	108		-	-	75-125	-	20
Copper, Total	0.01674	0.25	0.2732	109		-	-	75-125	-	20
Iron, Total	0.627	1	1.75	**175**	Q	-	-	75-125	-	20
Lead, Total	0.00441	0.51	0.5398	106		-	-	75-125	-	20
Magnesium, Total	24.7	10	36.0	90		-	-	75-125	-	20
Manganese, Total	0.00291	0.5	0.5032	101		-	-	75-125	-	20
Nickel, Total	0.04395	0.5	0.5556	101		-	-	75-125	-	20
Potassium, Total	1.88	10	12.2	122		-	-	75-125	-	20
Selenium, Total	0.00123J	0.12	0.127	106		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04892	98		-	-	75-125	-	20
Sodium, Total	71.1	10	76.8	**57**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1221	102		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.5170	103		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02 QC Batch ID: WG669015-4 QC Sample: L1402867-02 Client ID: MS Sample										
Zinc, Total	1.989	0.5	2.360	**74**	Q	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG669463-4 QC Sample: L1402843-01 Client ID: MS Sample										
Mercury, Total	0.38	0.205	0.36	**0**	Q	-	-	80-120	-	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02 QC Batch ID: WG668880-3 QC Sample: L1402867-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG668939-3 QC Sample: L1402843-01 Client ID: DUP Sample						
Aluminum, Total	1200	920	mg/kg	26		35
Antimony, Total	1.6J	1.3J	mg/kg	NC		35
Arsenic, Total	5.4	4.9	mg/kg	10		35
Barium, Total	21.	15	mg/kg	33		35
Beryllium, Total	0.15J	ND	mg/kg	NC		35
Cadmium, Total	ND	ND	mg/kg	NC		35
Calcium, Total	4300	4100	mg/kg	5		35
Chromium, Total	6.0	5.7	mg/kg	5		35
Cobalt, Total	5.4	1.4J	mg/kg	NC		35
Copper, Total	19.	13	mg/kg	**38**	Q	35
Iron, Total	3200	2500	mg/kg	25		35
Lead, Total	28.	19	mg/kg	**38**	Q	35
Magnesium, Total	920	1200	mg/kg	26		35
Manganese, Total	32.	24	mg/kg	29		35
Nickel, Total	11.	6.7	mg/kg	**49**	Q	35
Potassium, Total	200J	180J	mg/kg	NC		35
Selenium, Total	0.80J	ND	mg/kg	NC		35
Silver, Total	ND	ND	mg/kg	NC		35
Sodium, Total	96.J	81J	mg/kg	NC		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG668939-3 QC Sample: L1402843-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	7.7	7.9	mg/kg	3	35
Zinc, Total	12.	10	mg/kg	18	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02 QC Batch ID: WG669015-3 QC Sample: L1402867-02 Client ID: DUP Sample					
Aluminum, Total	0.00588J	0.00510J	mg/l	NC	20
Antimony, Total	0.00032J	0.00030J	mg/l	NC	20
Arsenic, Total	0.00029J	0.00039J	mg/l	NC	20
Barium, Total	0.05858	0.05718	mg/l	2	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	0.00061J	0.00057J	mg/l	NC	20
Cobalt, Total	0.00026J	0.00025J	mg/l	NC	20
Copper, Total	0.01674	0.01653	mg/l	1	20
Iron, Total	0.627	0.613	mg/l	2	20
Lead, Total	0.00441	0.00425	mg/l	4	20
Magnesium, Total	24.7	24.5	mg/l	1	20
Manganese, Total	0.00291	0.00325	mg/l	11	20
Nickel, Total	0.04395	0.04314	mg/l	2	20
Potassium, Total	1.88	1.84	mg/l	2	20
Selenium, Total	0.00123J	0.00123J	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02 QC Batch ID: WG669015-3 QC Sample: L1402867-02 Client ID: DUP Sample					
Calcium, Total	119.	115	mg/l	3	20
Sodium, Total	71.1	67.5	mg/l	5	20
Zinc, Total	1.989	1.918	mg/l	4	20
Total Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG669463-3 QC Sample: L1402843-01 Client ID: DUP Sample					
Mercury, Total	0.38	0.03J	mg/kg	NC	35

INORGANICS
&
MISCELLANEOUS

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-01
Client ID: SB-6 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/04/14 11:15
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	02/05/14 22:56	30,2540G	RT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-03
Client ID: SB-4 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/04/14 13:05
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	02/05/14 22:56	30,2540G	RT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

SAMPLE RESULTS

Lab ID: L1402856-04
Client ID: DUP-020414
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/04/14 12:00
Date Received: 02/04/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	02/05/14 22:56	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG668853-1 QC Sample: L1402856-01 Client ID: SB-6 (0-2)						
Solids, Total	91.8	92.3	%	1		20

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 02/05/2014 01:28

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402856-01A	5 gram Encore Sampler	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(2)
L1402856-01B	5 gram Encore Sampler	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(2)
L1402856-01C	5 gram Encore Sampler	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(2)
L1402856-01D	Plastic 2oz unpreserved for TS	A	N/A	4.6	Y	Absent	TS(7)
L1402856-01E	Amber 120ml unpreserved	A	N/A	4.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402856-01F	Amber 250ml unpreserved	A	N/A	4.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402856-01X	Vial MeOH preserved split	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(14)
L1402856-01Y	Vial Water preserved split	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(14)
L1402856-01Z	Vial Water preserved split	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(14)
L1402856-02A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1402856-02B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1402856-02C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402856-02D	Plastic 500ml HNO3 preserved	A	<2	4.6	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1402856-02E	Amber 500ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8081(7)
L1402856-02F	Amber 500ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8081(7)
L1402856-02G	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1402856-02H	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1402856-02I	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1402856-02J	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1402856-02Q	Plastic 500ml HNO3 preserved	A	<2	4.6	Y	Absent	-
L1402856-02R	Plastic 250ml unpreserved	A	7	4.6	Y	Absent	-
L1402856-03A	5 gram Encore Sampler	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(2)
L1402856-03B	5 gram Encore Sampler	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(2)
L1402856-03C	5 gram Encore Sampler	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(2)
L1402856-03D	Plastic 2oz unpreserved for TS	A	N/A	4.6	Y	Absent	TS(7)
L1402856-03E	Amber 120ml unpreserved	A	N/A	4.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402856-03F	Amber 250ml unpreserved	A	N/A	4.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402856
Report Date: 02/11/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402856-03X	Vial MeOH preserved split	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(14)
L1402856-03Y	Vial Water preserved split	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(14)
L1402856-03Z	Vial Water preserved split	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(14)
L1402856-04A	5 gram Encore Sampler	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(2)
L1402856-04B	5 gram Encore Sampler	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(2)
L1402856-04C	5 gram Encore Sampler	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(2)
L1402856-04D	Plastic 2oz unpreserved for TS	A	N/A	4.6	Y	Absent	TS(7)
L1402856-04E	Amber 120ml unpreserved	A	N/A	4.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402856-04F	Amber 250ml unpreserved	A	N/A	4.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402856-04X	Vial MeOH preserved split	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(14)
L1402856-04Y	Vial Water preserved split	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(14)
L1402856-04Z	Vial Water preserved split	A	N/A	4.6	Y	Absent	NYTCL-8260HLW(14)
L1402856-05A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1402856-05B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	239 10TH AVE	**Lab Number:**	L1402856
Project Number:	2355.0001Y000	**Report Date:**	02/11/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE	**Lab Number:**	L1402856
Project Number:	2355.0001Y000	**Report Date:**	02/11/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE	**Lab Number:**	L1402856
Project Number:	2355.0001Y000	**Report Date:**	02/11/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 2/5/14

ALPHA Job #: L1402856

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Roux Associates
Address: 209 SHAFTER ST
ISLANDIA, NY 11749
Phone: 631-232-2600
Fax: 631-232-9898
Email: WSHEN@RouxInc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 239 10th AVE
Project Location: New York, NY
Project #: 2355.0001Y000
Project Manager: WENDY SHEN
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 2/11/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits: (OER SAMPLES)

*CAT B Deliverable

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	TAL METALS	TCL PESTICIDES	PCBs	Sample Specific Comments
02856.01	SB-6 (0-2)	2/4/14	11:15	SO	JW	X	X	X	X	X	
.02	FIELD BLANK	2/4/14	11:20	FB	JW	X	X	X	X	X	
.03	SB-4 (0-2)	2/4/14	13:05	SO	JW	X	X	X	X	X	
.04	DUP-020414	2/4/14	1200	SO	JW	X	X	X	X	X	
.05	TRIP BLANK	2/4/14	—	TB	LAB	X					

SAMPLE HANDLING

Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TOTAL # BOTTLES

Container Type	C	G	G	G	G
Preservative	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	2/4/14 1530		2-4-14 1530
	2/4/14 2011		2-4-14 2011
	2/4/14 00:20		2/5/14 00:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1402939
Client:	Roux Associates, Inc. 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Wendy Shen
Phone:	(631) 232-2600
Project Name:	239 10TH AVE
Project Number:	2355.0001Y000
Report Date:	02/14/14

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1402939-01	SB-5 (7-10)	NEW YORK, NY	02/06/14 08:00
L1402939-02	SB-5 (30-32)	NEW YORK, NY	02/06/14 09:00
L1402939-03	SB-2 (0-2)	NEW YORK, NY	02/06/14 11:55
L1402939-04	SB-1 (0-2)	NEW YORK, NY	02/06/14 13:35
L1402939-05	FIELD BLANK	NEW YORK, NY	02/06/14 08:35
L1402939-06	TRIP BLANK	NEW YORK, NY	02/06/14 00:00
L1402939-07	SB-3 (7-10)	NEW YORK, NY	02/06/14 09:25

Project Name:	239 10TH AVE	**Lab Number:**	L1402939
Project Number:	2355.0001Y000	**Report Date:**	02/14/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	239 10TH AVE	**Lab Number:**	L1402939
Project Number:	2355.0001Y000	**Report Date:**	02/14/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The surrogate recovery for L1402939-04 is below the acceptance criteria for dibromofluoromethane (36%), due to a known matrix effect caused by the high pH of the sample (>10).

Semivolatile Organics

L1402939-01, -03, -04, -04RE, and -07 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilution required by the sample matrices.

The surrogate recovery for L1402939-04 was below the acceptance criteria for 2-fluorophenol (2%); however, re-extraction achieved similar results for 2-fluorophenol (3%). The results of both extractions are reported

Metals

L1402939-01 through -04 and -07 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 02/14/14

ORGANICS

VOLATILES

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-01
Client ID: SB-5 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 12:11
Analyst: BN
Percent Solids: 88%

Date Collected: 02/06/14 08:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.3	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.16	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.93	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.21	1
Dibromochloromethane	ND		ug/kg	0.93	0.29	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.28	1
Tetrachloroethene	ND		ug/kg	0.93	0.13	1
Chlorobenzene	ND		ug/kg	0.93	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.11	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	0.93	0.10	1
Bromodichloromethane	ND		ug/kg	0.93	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.93	0.12	1
1,1-Dichloropropene	ND		ug/kg	4.7	0.42	1
Bromoform	ND		ug/kg	3.7	0.39	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.93	0.16	1
Benzene	ND		ug/kg	0.93	0.11	1
Toluene	ND		ug/kg	1.4	0.10	1
Ethylbenzene	ND		ug/kg	0.93	0.14	1
Chloromethane	ND		ug/kg	4.7	0.73	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.13	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Trichloroethene	ND		ug/kg	0.93	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	0.22	1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-01
Client ID: SB-5 (7-10)
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 08:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	2.5		ug/kg	1.9	0.10	1
p/m-Xylene	ND		ug/kg	1.9	0.30	1
o-Xylene	ND		ug/kg	1.9	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.14	1
Dibromomethane	ND		ug/kg	9.3	0.15	1
Styrene	ND		ug/kg	1.9	0.29	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.20	1
Acetone	ND		ug/kg	9.3	2.9	1
Carbon disulfide	ND		ug/kg	9.3	1.9	1
2-Butanone	ND		ug/kg	9.3	0.33	1
Vinyl acetate	ND		ug/kg	9.3	0.45	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.3	0.21	1
2-Hexanone	ND		ug/kg	9.3	0.18	1
Bromochloromethane	ND		ug/kg	4.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	4.7	0.21	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.7	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.93	0.30	1
Bromobenzene	ND		ug/kg	4.7	0.19	1
n-Butylbenzene	ND		ug/kg	0.93	0.18	1
sec-Butylbenzene	ND		ug/kg	0.93	0.19	1
tert-Butylbenzene	ND		ug/kg	4.7	0.52	1
o-Chlorotoluene	ND		ug/kg	4.7	0.15	1
p-Chlorotoluene	ND		ug/kg	4.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	0.74	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.39	1
Isopropylbenzene	ND		ug/kg	0.93	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.18	1
Naphthalene	0.95	J	ug/kg	4.7	0.72	1
Acrylonitrile	ND		ug/kg	9.3	0.22	1
Tert-Butyl Alcohol	16	J	ug/kg	56	0.85	1
n-Propylbenzene	ND		ug/kg	0.93	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	0.74	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.7	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.7	0.54	1
1,4-Dioxane	ND		ug/kg	93	16.	1
p-Diethylbenzene	ND		ug/kg	3.7	0.15	1

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-01
Client ID: SB-5 (7-10)
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 08:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	3.7	0.11	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.12	1
Ethyl ether	ND		ug/kg	4.7	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-02
Client ID: SB-5 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 12:39
Analyst: BN
Percent Solids: 88%

Date Collected: 02/06/14 09:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.18	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	1.0	0.21	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.31	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	1.0	0.14	1
Chlorobenzene	ND		ug/kg	1.0	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.12	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11	1
Bromodichloromethane	ND		ug/kg	1.0	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.46	1
Bromoform	ND		ug/kg	4.0	0.42	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17	1
Benzene	ND		ug/kg	1.0	0.12	1
Toluene	ND		ug/kg	1.5	0.11	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	5.0	0.78	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.14	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21	1
Trichloroethene	ND		ug/kg	1.0	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24	1

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-02 Date Collected: 02/06/14 09:00

Client ID: SB-5 (30-32) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.10	1
p/m-Xylene	ND		ug/kg	2.0	0.32	1
o-Xylene	ND		ug/kg	2.0	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15	1
Dibromomethane	ND		ug/kg	10	0.16	1
Styrene	ND		ug/kg	2.0	0.31	1
Dichlorodifluoromethane	ND		ug/kg	10	0.22	1
Acetone	ND		ug/kg	10	3.1	1
Carbon disulfide	ND		ug/kg	10	2.0	1
2-Butanone	ND		ug/kg	10	0.36	1
Vinyl acetate	ND		ug/kg	10	0.48	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.22	1
2-Hexanone	ND		ug/kg	10	0.19	1
Bromochloromethane	ND		ug/kg	5.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.22	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.18	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32	1
Bromobenzene	ND		ug/kg	5.0	0.21	1
n-Butylbenzene	ND		ug/kg	1.0	0.20	1
sec-Butylbenzene	ND		ug/kg	1.0	0.21	1
tert-Butylbenzene	ND		ug/kg	5.0	0.56	1
o-Chlorotoluene	ND		ug/kg	5.0	0.16	1
p-Chlorotoluene	ND		ug/kg	5.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.0	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.19	1
Naphthalene	ND		ug/kg	5.0	0.77	1
Acrylonitrile	ND		ug/kg	10	0.24	1
Tert-Butyl Alcohol	ND		ug/kg	60	0.91	1
n-Propylbenzene	ND		ug/kg	1.0	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57	1
1,4-Dioxane	ND		ug/kg	100	17.	1
p-Diethylbenzene	ND		ug/kg	4.0	0.16	1

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-02
Client ID: SB-5 (30-32)
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 09:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	4.0	0.12	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-03
Client ID: SB-2 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 13:08
Analyst: BN
Percent Solids: 90%

Date Collected: 02/06/14 11:55
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.20	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.50	1
Bromoform	ND		ug/kg	4.4	0.46	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	1.1		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.5	0.87	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.16	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.27	1

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-03 Date Collected: 02/06/14 11:55

Client ID: SB-2 (0-2) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.12	1
p/m-Xylene	ND		ug/kg	2.2	0.36	1
o-Xylene	ND		ug/kg	2.2	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.34	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	15		ug/kg	11	3.4	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	2.4	J	ug/kg	11	0.39	1
Vinyl acetate	ND		ug/kg	11	0.53	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.5	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.5	0.62	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.87	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.47	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.5	0.85	1
Acrylonitrile	ND		ug/kg	11	0.26	1
Tert-Butyl Alcohol	ND		ug/kg	66	1.0	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.87	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.63	1
1,4-Dioxane	ND		ug/kg	110	19.	1
p-Diethylbenzene	ND		ug/kg	4.4	0.18	1

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-03
Client ID: SB-2 (0-2)
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 11:55
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	4.4	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	74		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-04
Client ID: SB-1 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 13:36
Analyst: BN
Percent Solids: 92%

Date Collected: 02/06/14 13:35
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.9	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.25	1
Chloroform	ND		ug/kg	2.2	0.53	1
Carbon tetrachloride	ND		ug/kg	1.4	0.30	1
1,2-Dichloropropane	ND		ug/kg	5.0	0.33	1
Dibromochloromethane	ND		ug/kg	1.4	0.44	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.44	1
Tetrachloroethene	ND		ug/kg	1.4	0.20	1
Chlorobenzene	ND		ug/kg	1.4	0.50	1
Trichlorofluoromethane	ND		ug/kg	7.2	0.17	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.16	1
Bromodichloromethane	ND		ug/kg	1.4	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.18	1
1,1-Dichloropropene	ND		ug/kg	7.2	0.65	1
Bromoform	ND		ug/kg	5.7	0.60	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.24	1
Benzene	ND		ug/kg	1.4	0.17	1
Toluene	ND		ug/kg	2.2	0.16	1
Ethylbenzene	ND		ug/kg	1.4	0.21	1
Chloromethane	ND		ug/kg	7.2	1.1	1
Bromomethane	ND		ug/kg	2.9	0.48	1
Vinyl chloride	ND		ug/kg	2.9	0.20	1
Chloroethane	ND		ug/kg	2.9	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.30	1
Trichloroethene	ND		ug/kg	1.4	0.22	1
1,2-Dichlorobenzene	ND		ug/kg	7.2	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	7.2	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	7.2	0.35	1

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-04 Date Collected: 02/06/14 13:35

Client ID: SB-1 (0-2) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.9	0.15	1
p/m-Xylene	ND		ug/kg	2.9	0.46	1
o-Xylene	ND		ug/kg	2.9	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.21	1
Dibromomethane	ND		ug/kg	14	0.23	1
Styrene	ND		ug/kg	2.9	0.44	1
Dichlorodifluoromethane	ND		ug/kg	14	0.31	1
Acetone	5.0	J	ug/kg	14	4.4	1
Carbon disulfide	ND		ug/kg	14	2.9	1
2-Butanone	ND		ug/kg	14	0.51	1
Vinyl acetate	ND		ug/kg	14	0.69	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.35	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.32	1
2-Hexanone	ND		ug/kg	14	0.27	1
Bromochloromethane	ND		ug/kg	7.2	0.28	1
2,2-Dichloropropane	ND		ug/kg	7.2	0.32	1
1,2-Dibromoethane	ND		ug/kg	5.7	0.26	1
1,3-Dichloropropane	ND		ug/kg	7.2	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.46	1
Bromobenzene	ND		ug/kg	7.2	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.28	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	7.2	0.80	1
o-Chlorotoluene	ND		ug/kg	7.2	0.23	1
p-Chlorotoluene	ND		ug/kg	7.2	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	7.2	0.61	1
Isopropylbenzene	ND		ug/kg	1.4	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.27	1
Naphthalene	ND		ug/kg	7.2	1.1	1
Acrylonitrile	ND		ug/kg	14	0.34	1
Tert-Butyl Alcohol	ND		ug/kg	86	1.3	1
n-Propylbenzene	ND		ug/kg	1.4	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.2	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.2	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.2	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.2	0.82	1
1,4-Dioxane	ND		ug/kg	140	25.	1
p-Diethylbenzene	ND		ug/kg	5.7	0.23	1

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-04
Client ID: SB-1 (0-2)
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 13:35
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	5.7	0.17	1
1,2,4,5-Tetramethylbenzene	0.62	J	ug/kg	5.7	0.19	1
Ethyl ether	ND		ug/kg	7.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.2	0.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	**36**	Q	70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-05
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/07/14 17:33
Analyst: PD

Date Collected: 02/06/14 08:35
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-05
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 08:35
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-05
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 08:35
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-06
Client ID: TRIP BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/07/14 18:08
Analyst: PD

Date Collected: 02/06/14 00:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-06
Client ID: TRIP BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 00:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-06
Client ID: TRIP BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 00:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	83		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-07
Client ID: SB-3 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/12/14 11:34
Analyst: BN
Percent Solids: 88%

Date Collected: 02/06/14 09:25
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	540	110	1
1,1-Dichloroethane	ND		ug/kg	81	9.6	1
Chloroform	ND		ug/kg	81	20.	1
Carbon tetrachloride	ND		ug/kg	54	11.	1
1,2-Dichloropropane	ND		ug/kg	190	12.	1
Dibromochloromethane	ND		ug/kg	54	17.	1
1,1,2-Trichloroethane	ND		ug/kg	81	16.	1
Tetrachloroethene	ND		ug/kg	54	7.6	1
Chlorobenzene	ND		ug/kg	54	19.	1
Trichlorofluoromethane	ND		ug/kg	270	6.6	1
1,2-Dichloroethane	ND		ug/kg	54	7.9	1
1,1,1-Trichloroethane	ND		ug/kg	54	6.0	1
Bromodichloromethane	ND		ug/kg	54	12.	1
trans-1,3-Dichloropropene	ND		ug/kg	54	6.5	1
cis-1,3-Dichloropropene	ND		ug/kg	54	6.9	1
1,1-Dichloropropene	ND		ug/kg	270	24.	1
Bromoform	ND		ug/kg	220	22.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	54	9.2	1
Benzene	380		ug/kg	54	6.4	1
Toluene	920		ug/kg	81	6.0	1
Ethylbenzene	8200		ug/kg	54	8.0	1
Chloromethane	ND		ug/kg	270	42.	1
Bromomethane	ND		ug/kg	110	18.	1
Vinyl chloride	ND		ug/kg	110	7.6	1
Chloroethane	ND		ug/kg	110	17.	1
1,1-Dichloroethene	ND		ug/kg	54	11.	1
trans-1,2-Dichloroethene	ND		ug/kg	81	11.	1
Trichloroethene	ND		ug/kg	54	8.2	1
1,2-Dichlorobenzene	ND		ug/kg	270	9.9	1
1,3-Dichlorobenzene	ND		ug/kg	270	9.9	1
1,4-Dichlorobenzene	ND		ug/kg	270	13.	1

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-07 Date Collected: 02/06/14 09:25

Client ID: SB-3 (7-10) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	5.6	1
p/m-Xylene	13000		ug/kg	110	17.	1
o-Xylene	2300		ug/kg	110	15.	1
cis-1,2-Dichloroethene	ND		ug/kg	54	8.1	1
Dibromomethane	ND		ug/kg	540	8.8	1
Styrene	ND		ug/kg	110	17.	1
Dichlorodifluoromethane	ND		ug/kg	540	12.	1
Acetone	ND		ug/kg	540	170	1
Carbon disulfide	ND		ug/kg	540	110	1
2-Butanone	ND		ug/kg	540	19.	1
Vinyl acetate	ND		ug/kg	540	26.	1
4-Methyl-2-pentanone	ND		ug/kg	540	13.	1
1,2,3-Trichloropropane	ND		ug/kg	540	12.	1
2-Hexanone	ND		ug/kg	540	10.	1
Bromochloromethane	ND		ug/kg	270	11.	1
2,2-Dichloropropane	ND		ug/kg	270	12.	1
1,2-Dibromoethane	ND		ug/kg	220	9.6	1
1,3-Dichloropropane	ND		ug/kg	270	9.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	54	17.	1
Bromobenzene	ND		ug/kg	270	11.	1
n-Butylbenzene	6300		ug/kg	54	11.	1
sec-Butylbenzene	1800		ug/kg	54	11.	1
tert-Butylbenzene	ND		ug/kg	270	30.	1
o-Chlorotoluene	ND		ug/kg	270	8.6	1
p-Chlorotoluene	ND		ug/kg	270	8.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	270	43.	1
Hexachlorobutadiene	ND		ug/kg	270	23.	1
Isopropylbenzene	3800		ug/kg	54	9.0	1
p-Isopropyltoluene	1200		ug/kg	54	10.	1
Naphthalene	11000		ug/kg	270	42.	1
Acrylonitrile	ND		ug/kg	540	13.	1
Tert-Butyl Alcohol	ND		ug/kg	3200	49.	1
n-Propylbenzene	9400		ug/kg	54	6.8	1
1,2,3-Trichlorobenzene	ND		ug/kg	270	9.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	270	43.	1
1,3,5-Trimethylbenzene	1500		ug/kg	270	7.7	1
1,2,4-Trimethylbenzene	40000	E	ug/kg	270	31.	1
1,4-Dioxane	ND		ug/kg	5400	940	1
p-Diethylbenzene	ND		ug/kg	220	8.6	1

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-07 Date Collected: 02/06/14 09:25

Client ID: SB-3 (7-10) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	14000	E	ug/kg	220	6.3	1
1,2,4,5-Tetramethylbenzene	25000	E	ug/kg	220	7.0	1
Ethyl ether	ND		ug/kg	270	14.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	270	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	76		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-07	D	Date Collected:	02/06/14 09:25
Client ID:	SB-3 (7-10)		Date Received:	02/06/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260C			
Analytical Date:	02/13/14 08:23			
Analyst:	BN			
Percent Solids:	88%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	61000		ug/kg	2700	310	10
p-Ethyltoluene	20000		ug/kg	2200	63.	10
1,2,4,5-Tetramethylbenzene	40000		ug/kg	2200	70.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	95		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/07/14 11:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG669270-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/07/14 11:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG669270-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/07/14 11:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG669270-3					
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 08:53
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04 Batch: WG669642-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

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Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04 Batch: WG669642-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

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Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04 Batch: WG669642-3					
Tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
1,4-Dioxane	ND		ug/kg	100	17.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

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Analytical Method: 1,8260C
Analytical Date: 02/12/14 09:26
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG669982-6					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	21	J	ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	39	J	ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2
1,4-Dichlorobenzene	ND		ug/kg	250	12.

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Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG669982-6					
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.
Acrylonitrile	ND		ug/kg	500	12.

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Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG669982-6					
Tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
1,4-Dioxane	ND		ug/kg	5000	870
p-Diethylbenzene	ND		ug/kg	200	8.0
p-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	90		70-130

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Analytical Method: 1,8260C
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Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG669982-9					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2
1,4-Dichlorobenzene	ND		ug/kg	250	12.

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG669982-9					
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.
Acrylonitrile	ND		ug/kg	500	12.

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Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG669982-9					
Tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	23	J	ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
1,4-Dioxane	ND		ug/kg	5000	870
p-Diethylbenzene	ND		ug/kg	200	8.0
p-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG669270-1 WG669270-2								
Methylene chloride	121		112		70-130	8		20
1,1-Dichloroethane	108		110		70-130	2		20
Chloroform	112		114		70-130	2		20
2-Chloroethylvinyl ether	108		112		70-130	4		20
Carbon tetrachloride	111		115		63-132	4		20
1,2-Dichloropropane	106		111		70-130	5		20
Dibromochloromethane	91		92		63-130	1		20
1,1,2-Trichloroethane	87		88		70-130	1		20
Tetrachloroethene	92		95		70-130	3		20
Chlorobenzene	97		100		75-130	3		20
Trichlorofluoromethane	102		100		62-150	2		20
1,2-Dichloroethane	116		119		70-130	3		20
1,1,1-Trichloroethane	113		116		67-130	3		20
Bromodichloromethane	115		119		67-130	3		20
trans-1,3-Dichloropropene	91		92		70-130	1		20
cis-1,3-Dichloropropene	114		117		70-130	3		20
1,1-Dichloropropene	110		113		70-130	3		20
Bromoform	85		87		54-136	2		20
1,1,2,2-Tetrachloroethane	86		90		67-130	5		20
Benzene	107		110		70-130	3		20
Toluene	90		93		70-130	3		20

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG669270-1 WG669270-2								
Ethylbenzene	102		104		70-130	2		20
Chloromethane	92		102		64-130	10		20
Bromomethane	82		83		39-139	1		20
Vinyl chloride	130		131		55-140	1		20
Chloroethane	116		112		55-138	4		20
1,1-Dichloroethene	95		92		61-145	3		20
trans-1,2-Dichloroethene	103		106		70-130	3		20
Trichloroethene	109		115		70-130	5		20
1,2-Dichlorobenzene	88		90		70-130	2		20
1,3-Dichlorobenzene	91		94		70-130	3		20
1,4-Dichlorobenzene	91		92		70-130	1		20
Methyl tert butyl ether	107		101		63-130	6		20
p/m-Xylene	103		105		70-130	2		20
o-Xylene	102		105		70-130	3		20
cis-1,2-Dichloroethene	105		106		70-130	1		20
Dibromomethane	111		113		70-130	2		20
1,2,3-Trichloropropane	84		86		64-130	2		20
Acrylonitrile	114		102		70-130	11		20
Isopropyl Ether	105		108		70-130	3		20
Tert-Butyl Alcohol	121		112		70-130	8		20
Styrene	104		108		70-130	4		20

Lab Control Sample Analysis
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG669270-1 WG669270-2								
Dichlorodifluoromethane	102		104		36-147	2		20
Acetone	126		112		58-148	12		20
Carbon disulfide	104		96		51-130	8		20
2-Butanone	125		122		63-138	2		20
Vinyl acetate	102		106		70-130	4		20
4-Methyl-2-pentanone	101		100		59-130	1		20
2-Hexanone	83		86		57-130	4		20
Bromochloromethane	109		110		70-130	1		20
2,2-Dichloropropane	116		119		63-133	3		20
1,2-Dibromoethane	88		88		70-130	0		20
1,3-Dichloropropane	88		89		70-130	1		20
1,1,1,2-Tetrachloroethane	95		97		64-130	2		20
Bromobenzene	91		96		70-130	5		20
n-Butylbenzene	93		94		53-136	1		20
sec-Butylbenzene	91		95		70-130	4		20
tert-Butylbenzene	93		96		70-130	3		20
o-Chlorotoluene	96		100		70-130	4		20
p-Chlorotoluene	94		98		70-130	4		20
1,2-Dibromo-3-chloropropane	85		80		41-144	6		20
Hexachlorobutadiene	91		95		63-130	4		20
Isopropylbenzene	94		98		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG669270-1 WG669270-2								
p-Isopropyltoluene	92		96		70-130	4		20
Naphthalene	85		86		70-130	1		20
n-Propylbenzene	94		97		69-130	3		20
1,2,3-Trichlorobenzene	81		84		70-130	4		20
1,2,4-Trichlorobenzene	86		88		70-130	2		20
1,3,5-Trimethylbenzene	95		98		64-130	3		20
1,2,4-Trimethylbenzene	93		95		70-130	2		20
Methyl Acetate	109		96		70-130	13		20
Ethyl Acetate	111		111		70-130	0		20
Cyclohexane	105		108		70-130	3		20
Ethyl-Tert-Butyl-Ether	107		111		70-130	4		20
Tertiary-Amyl Methyl Ether	110		112		66-130	2		20
1,4-Dioxane	131		139		56-162	6		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		96		70-130	2		20
p-Diethylbenzene	92		94		70-130	2		20
p-Ethyltoluene	94		96		70-130	2		20
1,2,4,5-Tetramethylbenzene	93		97		70-130	4		20
Ethyl ether	91		89		59-134	2		20
trans-1,4-Dichloro-2-butene	79		79		70-130	0		20
Methyl cyclohexane	113		115		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG669270-1 WG669270-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		105		70-130
Toluene-d8	89		89		70-130
4-Bromofluorobenzene	100		102		70-130
Dibromofluoromethane	101		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG669642-1 WG669642-2								
Methylene chloride	100		105		70-130	5		30
1,1-Dichloroethane	100		103		70-130	3		30
Chloroform	98		103		70-130	5		30
Carbon tetrachloride	112		112		70-130	0		30
1,2-Dichloropropane	98		102		70-130	4		30
Dibromochloromethane	99		105		70-130	6		30
2-Chloroethylvinyl ether	98		102		70-130	4		30
1,1,2-Trichloroethane	97		102		70-130	5		30
Tetrachloroethene	111		112		70-130	1		30
Chlorobenzene	101		106		70-130	5		30
Trichlorofluoromethane	117		116		70-139	1		30
1,2-Dichloroethane	96		102		70-130	6		30
1,1,1-Trichloroethane	104		106		70-130	2		30
Bromodichloromethane	98		104		70-130	6		30
trans-1,3-Dichloropropene	98		103		70-130	5		30
cis-1,3-Dichloropropene	98		103		70-130	5		30
1,1-Dichloropropene	105		106		70-130	1		30
Bromoform	96		101		70-130	5		30
1,1,2,2-Tetrachloroethane	94		99		70-130	5		30
Benzene	98		102		70-130	4		30
Toluene	99		102		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG669642-1 WG669642-2								
Ethylbenzene	100		103		70-130	3		30
Chloromethane	98		102		52-130	4		30
Bromomethane	116		125		57-147	7		30
Vinyl chloride	106		108		67-130	2		30
Chloroethane	106		110		50-151	4		30
1,1-Dichloroethene	106		108		65-135	2		30
trans-1,2-Dichloroethene	104		108		70-130	4		30
Trichloroethene	102		105		70-130	3		30
1,2-Dichlorobenzene	103		108		70-130	5		30
1,3-Dichlorobenzene	106		110		70-130	4		30
1,4-Dichlorobenzene	106		112		70-130	6		30
Methyl tert butyl ether	96		101		66-130	5		30
p/m-Xylene	101		105		70-130	4		30
o-Xylene	99		102		70-130	3		30
cis-1,2-Dichloroethene	100		106		70-130	6		30
Dibromomethane	99		104		70-130	5		30
Styrene	99		103		70-130	4		30
Dichlorodifluoromethane	119		117		30-146	2		30
Acetone	102		107		54-140	5		30
Carbon disulfide	107		109		59-130	2		30
2-Butanone	89		97		70-130	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG669642-1 WG669642-2								
Vinyl acetate	88		94		70-130	7		30
4-Methyl-2-pentanone	92		98		70-130	6		30
1,2,3-Trichloropropane	95		98		68-130	3		30
2-Hexanone	81		85		70-130	5		30
Bromochloromethane	101		106		70-130	5		30
2,2-Dichloropropane	104		104		70-130	0		30
1,2-Dibromoethane	97		103		70-130	6		30
1,3-Dichloropropane	96		101		69-130	5		30
1,1,1,2-Tetrachloroethane	100		105		70-130	5		30
Bromobenzene	102		107		70-130	5		30
n-Butylbenzene	113		113		70-130	0		30
sec-Butylbenzene	105		106		70-130	1		30
tert-Butylbenzene	103		105		70-130	2		30
o-Chlorotoluene	109		111		70-130	2		30
p-Chlorotoluene	102		106		70-130	4		30
1,2-Dibromo-3-chloropropane	103		107		68-130	4		30
Hexachlorobutadiene	114		114		67-130	0		30
Isopropylbenzene	101		102		70-130	1		30
p-Isopropyltoluene	107		109		70-130	2		30
Naphthalene	98		104		70-130	6		30
Acrylonitrile	93		98		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG669642-1 WG669642-2								
Isopropyl Ether	93		98		66-130	5		30
Tert-Butyl Alcohol	92		96		70-130	4		30
n-Propylbenzene	103		106		70-130	3		30
1,2,3-Trichlorobenzene	107		112		70-130	5		30
1,2,4-Trichlorobenzene	115		119		70-130	3		30
1,3,5-Trimethylbenzene	102		104		70-130	2		30
1,2,4-Trimethylbenzene	102		106		70-130	4		30
Methyl Acetate	89		94		51-146	5		30
Ethyl Acetate	82		87		70-130	6		30
Acrolein	88		93		70-130	6		30
Cyclohexane	110		109		59-142	1		30
1,4-Dioxane	94		100		65-136	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	118		118		50-139	0		30
p-Diethylbenzene	112		113		70-130	1		30
p-Ethyltoluene	105		107		70-130	2		30
1,2,4,5-Tetramethylbenzene	106		108		70-130	2		30
Tetrahydrofuran	86		91		66-130	6		30
Ethyl ether	95		104		67-130	9		30
trans-1,4-Dichloro-2-butene	95		97		70-130	2		30
Methyl cyclohexane	115		113		70-130	2		30
Ethyl-Tert-Butyl-Ether	94		99		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG669642-1 WG669642-2								
Tertiary-Amyl Methyl Ether	95		100		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	102		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-4 WG669982-5								
Methylene chloride	104		103		70-130	1		30
1,1-Dichloroethane	106		104		70-130	2		30
Chloroform	109		106		70-130	3		30
Carbon tetrachloride	109		105		70-130	4		30
1,2-Dichloropropane	102		101		70-130	1		30
Dibromochloromethane	82		81		70-130	1		30
2-Chloroethylvinyl ether	**34**	Q	**33**	Q	70-130	3		30
1,1,2-Trichloroethane	91		90		70-130	1		30
Tetrachloroethene	100		97		70-130	3		30
Chlorobenzene	95		93		70-130	2		30
Trichlorofluoromethane	124		117		70-139	6		30
1,2-Dichloroethane	108		108		70-130	0		30
1,1,1-Trichloroethane	112		108		70-130	4		30
Bromodichloromethane	98		97		70-130	1		30
trans-1,3-Dichloropropene	83		81		70-130	2		30
cis-1,3-Dichloropropene	98		97		70-130	1		30
1,1-Dichloropropene	117		111		70-130	5		30
Bromoform	72		70		70-130	3		30
1,1,2,2-Tetrachloroethane	83		82		70-130	1		30
Benzene	107		105		70-130	2		30
Toluene	89		87		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-4 WG669982-5								
Ethylbenzene	93		90		70-130	3		30
Chloromethane	98		93		52-130	5		30
Bromomethane	126		124		57-147	2		30
Vinyl chloride	123		118		67-130	4		30
Chloroethane	129		127		50-151	2		30
1,1-Dichloroethene	116		110		65-135	5		30
trans-1,2-Dichloroethene	113		110		70-130	3		30
Trichloroethene	115		112		70-130	3		30
1,2-Dichlorobenzene	89		88		70-130	1		30
1,3-Dichlorobenzene	90		88		70-130	2		30
1,4-Dichlorobenzene	92		90		70-130	2		30
Methyl tert butyl ether	104		103		66-130	1		30
p/m-Xylene	94		91		70-130	3		30
o-Xylene	92		90		70-130	2		30
cis-1,2-Dichloroethene	111		108		70-130	3		30
Dibromomethane	104		104		70-130	0		30
Styrene	91		89		70-130	2		30
Dichlorodifluoromethane	106		100		30-146	6		30
Acetone	85		79		54-140	7		30
Carbon disulfide	95		91		59-130	4		30
2-Butanone	84		81		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-4 WG669982-5								
Vinyl acetate	97		96		70-130	1		30
4-Methyl-2-pentanone	88		87		70-130	1		30
1,2,3-Trichloropropane	82		82		68-130	0		30
2-Hexanone	73		71		70-130	3		30
Bromochloromethane	112		110		70-130	2		30
2,2-Dichloropropane	103		98		70-130	5		30
1,2-Dibromoethane	90		90		70-130	0		30
1,3-Dichloropropane	92		91		69-130	1		30
1,1,1,2-Tetrachloroethane	90		88		70-130	2		30
Bromobenzene	90		88		70-130	2		30
n-Butylbenzene	91		88		70-130	3		30
sec-Butylbenzene	91		87		70-130	4		30
tert-Butylbenzene	89		87		70-130	2		30
o-Chlorotoluene	90		88		70-130	2		30
p-Chlorotoluene	87		85		70-130	2		30
1,2-Dibromo-3-chloropropane	69		68		68-130	1		30
Hexachlorobutadiene	92		88		67-130	4		30
Isopropylbenzene	89		86		70-130	3		30
p-Isopropyltoluene	90		87		70-130	3		30
Naphthalene	83		83		70-130	0		30
Acrylonitrile	87		86		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-4 WG669982-5								
Isopropyl Ether	104		102		66-130	2		30
Tert-Butyl Alcohol	87		85		70-130	2		30
n-Propylbenzene	91		88		70-130	3		30
1,2,3-Trichlorobenzene	89		89		70-130	0		30
1,2,4-Trichlorobenzene	92		90		70-130	2		30
1,3,5-Trimethylbenzene	88		85		70-130	3		30
1,2,4-Trimethylbenzene	90		87		70-130	3		30
Methyl Acetate	104		103		51-146	1		30
Ethyl Acetate	96		94		70-130	2		30
Acrolein	74		79		70-130	7		30
Cyclohexane	112		107		59-142	5		30
1,4-Dioxane	89		87		65-136	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	122		116		50-139	5		30
p-Diethylbenzene	93		90		70-130	3		30
p-Ethyltoluene	85		82		70-130	4		30
1,2,4,5-Tetramethylbenzene	86		84		70-130	2		30
Tetrahydrofuran	104		97		66-130	7		30
Ethyl ether	105		104		67-130	1		30
trans-1,4-Dichloro-2-butene	**68**	Q	**68**	Q	70-130	0		30
Methyl cyclohexane	114		109		70-130	4		30
Ethyl-Tert-Butyl-Ether	103		102		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-4 WG669982-5								
Tertiary-Amyl Methyl Ether	102		101		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		96		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-7 WG669982-8								
Methylene chloride	104		98		70-130	6		30
1,1-Dichloroethane	103		95		70-130	8		30
Chloroform	103		97		70-130	6		30
Carbon tetrachloride	110		101		70-130	9		30
1,2-Dichloropropane	101		95		70-130	6		30
Dibromochloromethane	99		95		70-130	4		30
2-Chloroethylvinyl ether	101		95		70-130	6		30
1,1,2-Trichloroethane	99		97		70-130	2		30
Tetrachloroethene	109		97		70-130	12		30
Chlorobenzene	103		97		70-130	6		30
Trichlorofluoromethane	119		109		70-139	9		30
1,2-Dichloroethane	100		97		70-130	3		30
1,1,1-Trichloroethane	106		96		70-130	10		30
Bromodichloromethane	102		96		70-130	6		30
trans-1,3-Dichloropropene	97		94		70-130	3		30
cis-1,3-Dichloropropene	99		94		70-130	5		30
1,1-Dichloropropene	108		98		70-130	10		30
Bromoform	94		92		70-130	2		30
1,1,2,2-Tetrachloroethane	98		98		70-130	0		30
Benzene	102		95		70-130	7		30
Toluene	102		94		70-130	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-7 WG669982-8								
Ethylbenzene	103		95		70-130	8		30
Chloromethane	99		89		52-130	11		30
Bromomethane	138		124		57-147	11		30
Vinyl chloride	108		97		67-130	11		30
Chloroethane	113		104		50-151	8		30
1,1-Dichloroethene	108		97		65-135	11		30
trans-1,2-Dichloroethene	106		97		70-130	9		30
Trichloroethene	105		97		70-130	8		30
1,2-Dichlorobenzene	107		100		70-130	7		30
1,3-Dichlorobenzene	108		102		70-130	6		30
1,4-Dichlorobenzene	110		104		70-130	6		30
Methyl tert butyl ether	96		93		66-130	3		30
p/m-Xylene	105		96		70-130	9		30
o-Xylene	102		95		70-130	7		30
cis-1,2-Dichloroethene	104		97		70-130	7		30
Dibromomethane	102		99		70-130	3		30
Styrene	102		95		70-130	7		30
Dichlorodifluoromethane	114		104		30-146	9		30
Acetone	92		90		54-140	2		30
Carbon disulfide	105		94		59-130	11		30
2-Butanone	86		89		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-7 WG669982-8								
Vinyl acetate	88		87		70-130	1		30
4-Methyl-2-pentanone	88		90		70-130	2		30
1,2,3-Trichloropropane	99		98		68-130	1		30
2-Hexanone	76		77		70-130	1		30
Bromochloromethane	104		99		70-130	5		30
2,2-Dichloropropane	101		92		70-130	9		30
1,2-Dibromoethane	99		97		70-130	2		30
1,3-Dichloropropane	99		97		69-130	2		30
1,1,1,2-Tetrachloroethane	100		95		70-130	5		30
Bromobenzene	104		98		70-130	6		30
n-Butylbenzene	115		105		70-130	9		30
sec-Butylbenzene	109		99		70-130	10		30
tert-Butylbenzene	106		97		70-130	9		30
o-Chlorotoluene	114		105		70-130	8		30
p-Chlorotoluene	108		100		70-130	8		30
1,2-Dibromo-3-chloropropane	97		97		68-130	0		30
Hexachlorobutadiene	103		96		67-130	7		30
Isopropylbenzene	105		96		70-130	9		30
p-Isopropyltoluene	110		100		70-130	10		30
Naphthalene	98		99		70-130	1		30
Acrylonitrile	93		96		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-7 WG669982-8								
Isopropyl Ether	96		91		66-130	5		30
Tert-Butyl Alcohol	82		84		70-130	2		30
n-Propylbenzene	108		98		70-130	10		30
1,2,3-Trichlorobenzene	103		100		70-130	3		30
1,2,4-Trichlorobenzene	112		107		70-130	5		30
1,3,5-Trimethylbenzene	107		98		70-130	9		30
1,2,4-Trimethylbenzene	107		99		70-130	8		30
Methyl Acetate	87		88		51-146	1		30
Ethyl Acetate	81		83		70-130	2		30
Acrolein	85		88		70-130	3		30
Cyclohexane	110		100		59-142	10		30
1,4-Dioxane	95		96		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	118		107		50-139	10		30
p-Diethylbenzene	114		104		70-130	9		30
p-Ethyltoluene	110		100		70-130	10		30
1,2,4,5-Tetramethylbenzene	107		100		70-130	7		30
Tetrahydrofuran	83		86		66-130	4		30
Ethyl ether	101		98		67-130	3		30
trans-1,4-Dichloro-2-butene	98		95		70-130	3		30
Methyl cyclohexane	114		102		70-130	11		30
Ethyl-Tert-Butyl-Ether	95		91		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG669982-7 WG669982-8								
Tertiary-Amyl Methyl Ether	94		90		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	101		104		70-130

SEMIVOLATILES

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-01 D
Client ID: SB-5 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/11/14 17:48
Analyst: JB
Percent Solids: 88%

Date Collected: 02/06/14 08:00
Date Received: 02/06/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	880	230	6
1,2,4-Trichlorobenzene	ND		ug/kg	1100	360	6
Hexachlorobenzene	ND		ug/kg	660	210	6
Bis(2-chloroethyl)ether	ND		ug/kg	1000	310	6
2-Chloronaphthalene	ND		ug/kg	1100	360	6
1,2-Dichlorobenzene	ND		ug/kg	1100	360	6
1,3-Dichlorobenzene	ND		ug/kg	1100	350	6
1,4-Dichlorobenzene	ND		ug/kg	1100	340	6
3,3'-Dichlorobenzidine	ND		ug/kg	1100	290	6
2,4-Dinitrotoluene	ND		ug/kg	1100	240	6
2,6-Dinitrotoluene	ND		ug/kg	1100	280	6
Fluoranthene	910		ug/kg	660	200	6
4-Chlorophenyl phenyl ether	ND		ug/kg	1100	340	6
4-Bromophenyl phenyl ether	ND		ug/kg	1100	250	6
Bis(2-chloroisopropyl)ether	ND		ug/kg	1300	390	6
Bis(2-chloroethoxy)methane	ND		ug/kg	1200	340	6
Hexachlorobutadiene	ND		ug/kg	1100	310	6
Hexachlorocyclopentadiene	ND		ug/kg	3200	710	6
Hexachloroethane	ND		ug/kg	880	200	6
Isophorone	ND		ug/kg	1000	290	6
Naphthalene	ND		ug/kg	1100	370	6
Nitrobenzene	ND		ug/kg	1000	260	6
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	880	230	6
n-Nitrosodi-n-propylamine	ND		ug/kg	1100	330	6
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1100	290	6
Butyl benzyl phthalate	ND		ug/kg	1100	220	6
Di-n-butylphthalate	ND		ug/kg	1100	210	6
Di-n-octylphthalate	ND		ug/kg	1100	270	6
Diethyl phthalate	ND		ug/kg	1100	230	6
Dimethyl phthalate	ND		ug/kg	1100	280	6
Benzo(a)anthracene	470	J	ug/kg	660	220	6

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-01 D Date Collected: 02/06/14 08:00

Client ID: SB-5 (7-10) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	380	J	ug/kg	880	270	6
Benzo(b)fluoranthene	510	J	ug/kg	660	220	6
Benzo(k)fluoranthene	ND		ug/kg	660	210	6
Chrysene	450	J	ug/kg	660	220	6
Acenaphthylene	ND		ug/kg	880	210	6
Anthracene	ND		ug/kg	660	180	6
Benzo(ghi)perylene	250	J	ug/kg	880	230	6
Fluorene	ND		ug/kg	1100	320	6
Phenanthrene	400	J	ug/kg	660	220	6
Dibenzo(a,h)anthracene	ND		ug/kg	660	210	6
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	880	240	6
Pyrene	790		ug/kg	660	220	6
Biphenyl	ND		ug/kg	2500	360	6
4-Chloroaniline	ND		ug/kg	1100	290	6
2-Nitroaniline	ND		ug/kg	1100	310	6
3-Nitroaniline	ND		ug/kg	1100	300	6
4-Nitroaniline	ND		ug/kg	1100	300	6
Dibenzofuran	ND		ug/kg	1100	370	6
2-Methylnaphthalene	ND		ug/kg	1300	350	6
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1100	340	6
Acetophenone	ND		ug/kg	1100	340	6
2,4,6-Trichlorophenol	ND		ug/kg	660	210	6
P-Chloro-M-Cresol	ND		ug/kg	1100	320	6
2-Chlorophenol	ND		ug/kg	1100	330	6
2,4-Dichlorophenol	ND		ug/kg	1000	360	6
2,4-Dimethylphenol	ND		ug/kg	1100	330	6
2-Nitrophenol	ND		ug/kg	2400	340	6
4-Nitrophenol	ND		ug/kg	1500	360	6
2,4-Dinitrophenol	ND		ug/kg	5300	1500	6
4,6-Dinitro-o-cresol	ND		ug/kg	2900	400	6
Pentachlorophenol	ND		ug/kg	880	240	6
Phenol	ND		ug/kg	1100	330	6
2-Methylphenol	ND		ug/kg	1100	360	6
3-Methylphenol/4-Methylphenol	ND		ug/kg	1600	360	6
2,4,5-Trichlorophenol	ND		ug/kg	1100	360	6
Benzoic Acid	ND		ug/kg	3600	1100	6
Benzyl Alcohol	ND		ug/kg	1100	340	6
Carbazole	ND		ug/kg	1100	240	6

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-01 D
Client ID: SB-5 (7-10)
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 08:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	97		25-120
Phenol-d6	119		10-120
Nitrobenzene-d5	**123**	Q	23-120
2-Fluorobiphenyl	119		30-120
2,4,6-Tribromophenol	114		0-136
4-Terphenyl-d14	108		18-120

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-02	Date Collected:	02/06/14 09:00
Client ID:	SB-5 (30-32)	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/09/14 12:08
Analytical Date:	02/11/14 14:02		
Analyst:	PS		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-02
Client ID: SB-5 (30-32)
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 09:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-02
Client ID: SB-5 (30-32)
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 09:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	86		0-136
4-Terphenyl-d14	91		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-03 D
Client ID: SB-2 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/11/14 18:15
Analyst: JB
Percent Solids: 90%

Date Collected: 02/06/14 11:55
Date Received: 02/06/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	580	150	4
1,2,4-Trichlorobenzene	ND		ug/kg	730	240	4
Hexachlorobenzene	ND		ug/kg	440	140	4
Bis(2-chloroethyl)ether	ND		ug/kg	660	200	4
2-Chloronaphthalene	ND		ug/kg	730	240	4
1,2-Dichlorobenzene	ND		ug/kg	730	240	4
1,3-Dichlorobenzene	ND		ug/kg	730	230	4
1,4-Dichlorobenzene	ND		ug/kg	730	220	4
3,3'-Dichlorobenzidine	ND		ug/kg	730	190	4
2,4-Dinitrotoluene	ND		ug/kg	730	160	4
2,6-Dinitrotoluene	ND		ug/kg	730	190	4
Fluoranthene	1000		ug/kg	440	130	4
4-Chlorophenyl phenyl ether	ND		ug/kg	730	220	4
4-Bromophenyl phenyl ether	ND		ug/kg	730	170	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	870	260	4
Bis(2-chloroethoxy)methane	ND		ug/kg	790	220	4
Hexachlorobutadiene	ND		ug/kg	730	200	4
Hexachlorocyclopentadiene	ND		ug/kg	2100	470	4
Hexachloroethane	ND		ug/kg	580	130	4
Isophorone	ND		ug/kg	660	190	4
Naphthalene	ND		ug/kg	730	240	4
Nitrobenzene	ND		ug/kg	660	170	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	580	150	4
n-Nitrosodi-n-propylamine	ND		ug/kg	730	220	4
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	730	190	4
Butyl benzyl phthalate	ND		ug/kg	730	140	4
Di-n-butylphthalate	ND		ug/kg	730	140	4
Di-n-octylphthalate	ND		ug/kg	730	180	4
Diethyl phthalate	ND		ug/kg	730	150	4
Dimethyl phthalate	ND		ug/kg	730	180	4
Benzo(a)anthracene	530		ug/kg	440	140	4

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-03 D Date Collected: 02/06/14 11:55

Client ID: SB-2 (0-2) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	470	J	ug/kg	580	180	4
Benzo(b)fluoranthene	640		ug/kg	440	150	4
Benzo(k)fluoranthene	270	J	ug/kg	440	140	4
Chrysene	540		ug/kg	440	140	4
Acenaphthylene	ND		ug/kg	580	140	4
Anthracene	150	J	ug/kg	440	120	4
Benzo(ghi)perylene	290	J	ug/kg	580	150	4
Fluorene	ND		ug/kg	730	210	4
Phenanthrene	580		ug/kg	440	140	4
Dibenzo(a,h)anthracene	ND		ug/kg	440	140	4
Indeno(1,2,3-cd)Pyrene	260	J	ug/kg	580	160	4
Pyrene	930		ug/kg	440	140	4
Biphenyl	ND		ug/kg	1700	240	4
4-Chloroaniline	ND		ug/kg	730	190	4
2-Nitroaniline	ND		ug/kg	730	200	4
3-Nitroaniline	ND		ug/kg	730	200	4
4-Nitroaniline	ND		ug/kg	730	200	4
Dibenzofuran	ND		ug/kg	730	240	4
2-Methylnaphthalene	ND		ug/kg	870	230	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	730	220	4
Acetophenone	ND		ug/kg	730	220	4
2,4,6-Trichlorophenol	ND		ug/kg	440	140	4
P-Chloro-M-Cresol	ND		ug/kg	730	210	4
2-Chlorophenol	ND		ug/kg	730	220	4
2,4-Dichlorophenol	ND		ug/kg	660	240	4
2,4-Dimethylphenol	ND		ug/kg	730	220	4
2-Nitrophenol	ND		ug/kg	1600	230	4
4-Nitrophenol	ND		ug/kg	1000	240	4
2,4-Dinitrophenol	ND		ug/kg	3500	1000	4
4,6-Dinitro-o-cresol	ND		ug/kg	1900	270	4
Pentachlorophenol	ND		ug/kg	580	160	4
Phenol	ND		ug/kg	730	220	4
2-Methylphenol	ND		ug/kg	730	230	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1000	240	4
2,4,5-Trichlorophenol	ND		ug/kg	730	240	4
Benzoic Acid	ND		ug/kg	2400	740	4
Benzyl Alcohol	ND		ug/kg	730	220	4
Carbazole	ND		ug/kg	730	160	4

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-03 D
Client ID: SB-2 (0-2)
Sample Location: NEW YORK, NY

Date Collected: 02/06/14 11:55
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	96		30-120
2,4,6-Tribromophenol	28		0-136
4-Terphenyl-d14	87		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-04	RE/D	Date Collected:	02/06/14 13:35
Client ID:	SB-1 (0-2)		Date Received:	02/06/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	02/13/14 09:18
Analytical Date:	02/13/14 21:49			
Analyst:	HL			
Percent Solids:	92%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	870	220	6
1,2,4-Trichlorobenzene	ND		ug/kg	1100	350	6
Hexachlorobenzene	ND		ug/kg	650	200	6
Bis(2-chloroethyl)ether	ND		ug/kg	970	300	6
2-Chloronaphthalene	ND		ug/kg	1100	350	6
1,2-Dichlorobenzene	ND		ug/kg	1100	360	6
1,3-Dichlorobenzene	ND		ug/kg	1100	340	6
1,4-Dichlorobenzene	ND		ug/kg	1100	330	6
3,3'-Dichlorobenzidine	ND		ug/kg	1100	290	6
2,4-Dinitrotoluene	ND		ug/kg	1100	230	6
2,6-Dinitrotoluene	ND		ug/kg	1100	280	6
Fluoranthene	1600		ug/kg	650	200	6
4-Chlorophenyl phenyl ether	ND		ug/kg	1100	330	6
4-Bromophenyl phenyl ether	ND		ug/kg	1100	250	6
Bis(2-chloroisopropyl)ether	ND		ug/kg	1300	380	6
Bis(2-chloroethoxy)methane	ND		ug/kg	1200	330	6
Hexachlorobutadiene	ND		ug/kg	1100	300	6
Hexachlorocyclopentadiene	ND		ug/kg	3100	700	6
Hexachloroethane	ND		ug/kg	870	200	6
Isophorone	ND		ug/kg	970	290	6
Naphthalene	ND		ug/kg	1100	360	6
Nitrobenzene	ND		ug/kg	970	260	6
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	870	230	6
n-Nitrosodi-n-propylamine	ND		ug/kg	1100	320	6
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1100	280	6
Butyl benzyl phthalate	ND		ug/kg	1100	210	6
Di-n-butylphthalate	ND		ug/kg	1100	210	6
Di-n-octylphthalate	ND		ug/kg	1100	270	6
Diethyl phthalate	ND		ug/kg	1100	230	6
Dimethyl phthalate	ND		ug/kg	1100	280	6
Benzo(a)anthracene	730		ug/kg	650	210	6

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-04 RE/D Date Collected: 02/06/14 13:35

Client ID: SB-1 (0-2) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	600	J	ug/kg	870	260	6
Benzo(b)fluoranthene	770		ug/kg	650	220	6
Benzo(k)fluoranthene	320	J	ug/kg	650	210	6
Chrysene	750		ug/kg	650	210	6
Acenaphthylene	ND		ug/kg	870	200	6
Anthracene	380	J	ug/kg	650	180	6
Benzo(ghi)perylene	380	J	ug/kg	870	220	6
Fluorene	ND		ug/kg	1100	310	6
Phenanthrene	2000		ug/kg	650	210	6
Dibenzo(a,h)anthracene	ND		ug/kg	650	210	6
Indeno(1,2,3-cd)Pyrene	380	J	ug/kg	870	240	6
Pyrene	1200		ug/kg	650	210	6
Biphenyl	ND		ug/kg	2500	360	6
4-Chloroaniline	ND		ug/kg	1100	280	6
2-Nitroaniline	ND		ug/kg	1100	300	6
3-Nitroaniline	ND		ug/kg	1100	300	6
4-Nitroaniline	ND		ug/kg	1100	290	6
Dibenzofuran	ND		ug/kg	1100	360	6
2-Methylnaphthalene	ND		ug/kg	1300	340	6
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1100	340	6
Acetophenone	ND		ug/kg	1100	340	6
2,4,6-Trichlorophenol	ND		ug/kg	650	200	6
P-Chloro-M-Cresol	ND		ug/kg	1100	310	6
2-Chlorophenol	ND		ug/kg	1100	330	6
2,4-Dichlorophenol	ND		ug/kg	970	350	6
2,4-Dimethylphenol	ND		ug/kg	1100	320	6
2-Nitrophenol	ND		ug/kg	2300	340	6
4-Nitrophenol	ND		ug/kg	1500	350	6
2,4-Dinitrophenol	ND		ug/kg	5200	1500	6
4,6-Dinitro-o-cresol	ND		ug/kg	2800	400	6
Pentachlorophenol	ND		ug/kg	870	230	6
Phenol	ND		ug/kg	1100	320	6
2-Methylphenol	ND		ug/kg	1100	350	6
3-Methylphenol/4-Methylphenol	ND		ug/kg	1600	360	6
2,4,5-Trichlorophenol	ND		ug/kg	1100	350	6
Benzoic Acid	ND		ug/kg	3500	1100	6
Benzyl Alcohol	ND		ug/kg	1100	330	6
Carbazole	ND		ug/kg	1100	230	6

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-04	RE/D	Date Collected:	02/06/14 13:35
Client ID:	SB-1 (0-2)		Date Received:	02/06/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**3**	Q	25-120
Phenol-d6	26		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	1		0-136
4-Terphenyl-d14	72		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-04 D
Client ID: SB-1 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/11/14 18:43
Analyst: HL
Percent Solids: 92%

Date Collected: 02/06/14 13:35
Date Received: 02/06/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	570	150	4
1,2,4-Trichlorobenzene	ND		ug/kg	710	230	4
Hexachlorobenzene	ND		ug/kg	430	130	4
Bis(2-chloroethyl)ether	ND		ug/kg	640	200	4
2-Chloronaphthalene	ND		ug/kg	710	230	4
1,2-Dichlorobenzene	ND		ug/kg	710	230	4
1,3-Dichlorobenzene	ND		ug/kg	710	220	4
1,4-Dichlorobenzene	ND		ug/kg	710	220	4
3,3'-Dichlorobenzidine	ND		ug/kg	710	190	4
2,4-Dinitrotoluene	ND		ug/kg	710	150	4
2,6-Dinitrotoluene	ND		ug/kg	710	180	4
Fluoranthene	1600		ug/kg	430	130	4
4-Chlorophenyl phenyl ether	ND		ug/kg	710	220	4
4-Bromophenyl phenyl ether	ND		ug/kg	710	160	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	860	250	4
Bis(2-chloroethoxy)methane	ND		ug/kg	770	220	4
Hexachlorobutadiene	ND		ug/kg	710	200	4
Hexachlorocyclopentadiene	ND		ug/kg	2000	460	4
Hexachloroethane	ND		ug/kg	570	130	4
Isophorone	ND		ug/kg	640	190	4
Naphthalene	ND		ug/kg	710	240	4
Nitrobenzene	ND		ug/kg	640	170	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	570	150	4
n-Nitrosodi-n-propylamine	ND		ug/kg	710	210	4
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	710	190	4
Butyl benzyl phthalate	ND		ug/kg	710	140	4
Di-n-butylphthalate	ND		ug/kg	710	140	4
Di-n-octylphthalate	ND		ug/kg	710	180	4
Diethyl phthalate	ND		ug/kg	710	150	4
Dimethyl phthalate	ND		ug/kg	710	180	4
Benzo(a)anthracene	550		ug/kg	430	140	4

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-04 D Date Collected: 02/06/14 13:35

Client ID: SB-1 (0-2) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	450	J	ug/kg	570	170	4
Benzo(b)fluoranthene	600		ug/kg	430	140	4
Benzo(k)fluoranthene	300	J	ug/kg	430	140	4
Chrysene	570		ug/kg	430	140	4
Acenaphthylene	180	J	ug/kg	570	130	4
Anthracene	370	J	ug/kg	430	120	4
Benzo(ghi)perylene	270	J	ug/kg	570	150	4
Fluorene	ND		ug/kg	710	200	4
Phenanthrene	1800		ug/kg	430	140	4
Dibenzo(a,h)anthracene	ND		ug/kg	430	140	4
Indeno(1,2,3-cd)Pyrene	230	J	ug/kg	570	160	4
Pyrene	1300		ug/kg	430	140	4
Biphenyl	ND		ug/kg	1600	240	4
4-Chloroaniline	ND		ug/kg	710	190	4
2-Nitroaniline	ND		ug/kg	710	200	4
3-Nitroaniline	ND		ug/kg	710	200	4
4-Nitroaniline	ND		ug/kg	710	190	4
Dibenzofuran	ND		ug/kg	710	240	4
2-Methylnaphthalene	ND		ug/kg	860	230	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	710	220	4
Acetophenone	ND		ug/kg	710	220	4
2,4,6-Trichlorophenol	ND		ug/kg	430	130	4
P-Chloro-M-Cresol	ND		ug/kg	710	210	4
2-Chlorophenol	ND		ug/kg	710	220	4
2,4-Dichlorophenol	ND		ug/kg	640	230	4
2,4-Dimethylphenol	ND		ug/kg	710	210	4
2-Nitrophenol	ND		ug/kg	1500	220	4
4-Nitrophenol	ND		ug/kg	1000	230	4
2,4-Dinitrophenol	ND		ug/kg	3400	980	4
4,6-Dinitro-o-cresol	ND		ug/kg	1800	260	4
Pentachlorophenol	ND		ug/kg	570	150	4
Phenol	ND		ug/kg	710	210	4
2-Methylphenol	ND		ug/kg	710	230	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1000	230	4
2,4,5-Trichlorophenol	ND		ug/kg	710	230	4
Benzoic Acid	ND		ug/kg	2300	720	4
Benzyl Alcohol	ND		ug/kg	710	220	4
Carbazole	230	J	ug/kg	710	150	4

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-04 D Date Collected: 02/06/14 13:35

Client ID: SB-1 (0-2) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**2**	Q	25-120
Phenol-d6	22		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	96		30-120
2,4,6-Tribromophenol	0		0-136
4-Terphenyl-d14	78		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-05	Date Collected:	02/06/14 08:35
Client ID:	FIELD BLANK	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/07/14 17:01
Analytical Date:	02/10/14 14:57		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE
Lab Number: L1402939
Project Number: 2355.0001Y000
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-05
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/06/14 08:35
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	112		10-120
4-Terphenyl-d14	103		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-05	Date Collected:	02/06/14 08:35
Client ID:	FIELD BLANK	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	02/07/14 17:18
Analytical Date:	02/10/14 15:16		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	114		10-120
4-Terphenyl-d14	115		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-07 D
Client ID: SB-3 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/11/14 19:10
Analyst: JB
Percent Solids: 88%

Date Collected: 02/06/14 09:25
Date Received: 02/06/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	600	150	4
1,2,4-Trichlorobenzene	ND		ug/kg	750	240	4
Hexachlorobenzene	ND		ug/kg	450	140	4
Bis(2-chloroethyl)ether	ND		ug/kg	670	210	4
2-Chloronaphthalene	ND		ug/kg	750	240	4
1,2-Dichlorobenzene	ND		ug/kg	750	250	4
1,3-Dichlorobenzene	ND		ug/kg	750	240	4
1,4-Dichlorobenzene	ND		ug/kg	750	230	4
3,3'-Dichlorobenzidine	ND		ug/kg	750	200	4
2,4-Dinitrotoluene	ND		ug/kg	750	160	4
2,6-Dinitrotoluene	ND		ug/kg	750	190	4
Fluoranthene	1700		ug/kg	450	140	4
4-Chlorophenyl phenyl ether	ND		ug/kg	750	230	4
4-Bromophenyl phenyl ether	ND		ug/kg	750	170	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	900	260	4
Bis(2-chloroethoxy)methane	ND		ug/kg	810	230	4
Hexachlorobutadiene	ND		ug/kg	750	210	4
Hexachlorocyclopentadiene	ND		ug/kg	2200	480	4
Hexachloroethane	ND		ug/kg	600	140	4
Isophorone	ND		ug/kg	670	200	4
Naphthalene	13000		ug/kg	750	250	4
Nitrobenzene	ND		ug/kg	670	180	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	600	160	4
n-Nitrosodi-n-propylamine	ND		ug/kg	750	220	4
Bis(2-Ethylhexyl)phthalate	1500		ug/kg	750	200	4
Butyl benzyl phthalate	ND		ug/kg	750	150	4
Di-n-butylphthalate	ND		ug/kg	750	140	4
Di-n-octylphthalate	ND		ug/kg	750	180	4
Diethyl phthalate	ND		ug/kg	750	160	4
Dimethyl phthalate	ND		ug/kg	750	190	4
Benzo(a)anthracene	910		ug/kg	450	150	4

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-07 D Date Collected: 02/06/14 09:25

Client ID: SB-3 (7-10) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	1000		ug/kg	600	180	4
Benzo(b)fluoranthene	1400		ug/kg	450	150	4
Benzo(k)fluoranthene	650		ug/kg	450	140	4
Chrysene	1000		ug/kg	450	150	4
Acenaphthylene	ND		ug/kg	600	140	4
Anthracene	200	J	ug/kg	450	120	4
Benzo(ghi)perylene	580	J	ug/kg	600	160	4
Fluorene	ND		ug/kg	750	210	4
Phenanthrene	720		ug/kg	450	150	4
Dibenzo(a,h)anthracene	180	J	ug/kg	450	140	4
Indeno(1,2,3-cd)Pyrene	540	J	ug/kg	600	170	4
Pyrene	1800		ug/kg	450	140	4
Biphenyl	ND		ug/kg	1700	250	4
4-Chloroaniline	ND		ug/kg	750	200	4
2-Nitroaniline	ND		ug/kg	750	210	4
3-Nitroaniline	ND		ug/kg	750	210	4
4-Nitroaniline	ND		ug/kg	750	200	4
Dibenzofuran	ND		ug/kg	750	250	4
2-Methylnaphthalene	14000		ug/kg	900	240	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	750	230	4
Acetophenone	ND		ug/kg	750	230	4
2,4,6-Trichlorophenol	ND		ug/kg	450	140	4
P-Chloro-M-Cresol	ND		ug/kg	750	220	4
2-Chlorophenol	ND		ug/kg	750	230	4
2,4-Dichlorophenol	ND		ug/kg	670	240	4
2,4-Dimethylphenol	ND		ug/kg	750	220	4
2-Nitrophenol	ND		ug/kg	1600	230	4
4-Nitrophenol	ND		ug/kg	1000	240	4
2,4-Dinitrophenol	ND		ug/kg	3600	1000	4
4,6-Dinitro-o-cresol	ND		ug/kg	1900	270	4
Pentachlorophenol	ND		ug/kg	600	160	4
Phenol	ND		ug/kg	750	220	4
2-Methylphenol	ND		ug/kg	750	240	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1100	240	4
2,4,5-Trichlorophenol	ND		ug/kg	750	240	4
Benzoic Acid	ND		ug/kg	2400	760	4
Benzyl Alcohol	ND		ug/kg	750	230	4
Carbazole	ND		ug/kg	750	160	4

Project Name: 239 10TH AVE **Lab Number:** L1402939

Project Number: 2355.0001Y000 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-07 D Date Collected: 02/06/14 09:25

Client ID: SB-3 (7-10) Date Received: 02/06/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	115		0-136
4-Terphenyl-d14	81		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/10/14 13:40
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 17:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG669307-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Isophorone	ND		ug/l	5.0	0.79
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39
Dimethyl phthalate	ND		ug/l	5.0	0.33
Biphenyl	ND		ug/l	2.0	0.24
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/10/14 13:40
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 17:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG669307-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	111		10-120
4-Terphenyl-d14	104		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/10/14 11:14
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 17:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05 Batch: WG669308-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/10/14 11:14
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 17:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05 Batch: WG669308-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	112		10-120
4-Terphenyl-d14	123		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/12/14 08:57
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,07 Batch: WG669377-1					
Acenaphthene	ND		ug/kg	130	34.
Benzidine	ND		ug/kg	550	130
n-Nitrosodimethylamine	ND		ug/kg	330	54.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Azobenzene	ND		ug/kg	160	44.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	480	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/12/14 08:57
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,07 Batch: WG669377-1					
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	48.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	55.
Aniline	ND		ug/kg	200	34.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/12/14 08:57
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,07 Batch: WG669377-1					
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	800	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	61.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.
Benzaldehyde	ND		ug/kg	220	67.
Caprolactam	ND		ug/kg	160	46.
Atrazine	ND		ug/kg	130	38.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.
Pyridine	ND		ug/kg	660	59.
Parathion, ethyl	ND		ug/kg	160	66.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	77		0-136
4-Terphenyl-d14	82		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 08:03
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/09/14 12:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG669441-1					
Acenaphthene	ND		ug/kg	130	33.
Benzidine	ND		ug/kg	540	130
n-Nitrosodimethylamine	ND		ug/kg	320	52.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Azobenzene	ND		ug/kg	160	43.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 08:03
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/09/14 12:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG669441-1					
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	33.
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	32.
Biphenyl	ND		ug/kg	370	53.
Aniline	ND		ug/kg	190	33.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	97	30.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	140	52.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	50.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 08:03
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/09/14 12:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG669441-1					
4-Nitrophenol	ND		ug/kg	230	52.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	52.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.
Benzaldehyde	ND		ug/kg	210	65.
Caprolactam	ND		ug/kg	160	45.
Atrazine	ND		ug/kg	130	37.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.
Pyridine	ND		ug/kg	650	58.
Parathion, ethyl	ND		ug/kg	160	64.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	101		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	96		0-136
4-Terphenyl-d14	96		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/13/14 20:32
Analyst: HL

Extraction Method: EPA 3546
Extraction Date: 02/13/14 09:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG670247-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	470	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/13/14 20:32
Analyst: HL

Extraction Method: EPA 3546
Extraction Date: 02/13/14 09:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG670247-1					
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	54.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	790	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.

Project Name: 239 10TH AVE
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/13/14 20:32
Analyst: HL

Extraction Method: EPA 3546
Extraction Date: 02/13/14 09:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG670247-1					
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	97		0-136
4-Terphenyl-d14	86		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG669307-2 WG669307-3								
1,2,4-Trichlorobenzene	70		69		39-98	1		30
Bis(2-chloroethyl)ether	92		90		40-140	2		30
1,2-Dichlorobenzene	71		70		40-140	1		30
1,3-Dichlorobenzene	70		70		40-140	0		30
1,4-Dichlorobenzene	70		70		36-97	0		30
3,3'-Dichlorobenzidine	41		43		40-140	5		30
2,4-Dinitrotoluene	**106**	Q	**111**	Q	24-96	5		30
2,6-Dinitrotoluene	96		102		40-140	6		30
4-Chlorophenyl phenyl ether	90		90		40-140	0		30
4-Bromophenyl phenyl ether	97		102		40-140	5		30
Bis(2-chloroisopropyl)ether	81		80		40-140	1		30
Bis(2-chloroethoxy)methane	89		88		40-140	1		30
Hexachlorocyclopentadiene	**38**	Q	**36**	Q	40-140	5		30
Isophorone	91		90		40-140	1		30
Nitrobenzene	98		98		40-140	0		30
NitrosoDiPhenylAmine(NDPA)/DPA	100		103		40-140	3		30
n-Nitrosodi-n-propylamine	93		92		29-132	1		30
Bis(2-Ethylhexyl)phthalate	115		114		40-140	1		30
Butyl benzyl phthalate	118		122		40-140	3		30
Di-n-butylphthalate	113		112		40-140	1		30
Di-n-octylphthalate	120		119		40-140	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG669307-2 WG669307-3								
Diethyl phthalate	102		106		40-140	4		30
Dimethyl phthalate	104		106		40-140	2		30
Biphenyl	82		83			1		30
4-Chloroaniline	51		49		40-140	4		30
2-Nitroaniline	97		103		52-143	6		30
3-Nitroaniline	44		44		25-145	0		30
4-Nitroaniline	93		100		51-143	7		30
Dibenzofuran	88		89		40-140	1		30
1,2,4,5-Tetrachlorobenzene	73		73		2-134	0		30
Acetophenone	100		99		39-129	1		30
2,4,6-Trichlorophenol	103		106		30-130	3		30
P-Chloro-M-Cresol	**99**	Q	**103**	Q	23-97	4		30
2-Chlorophenol	96		95		27-123	1		30
2,4-Dichlorophenol	106		107		30-130	1		30
2,4-Dimethylphenol	84		85		30-130	1		30
2-Nitrophenol	97		97		30-130	0		30
4-Nitrophenol	69		68		10-80	1		30
2,4-Dinitrophenol	88		100		20-130	13		30
4,6-Dinitro-o-cresol	105		114		20-164	8		30
Phenol	49		48		12-110	2		30
2-Methylphenol	87		86		30-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

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Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG669307-2 WG669307-3								
3-Methylphenol/4-Methylphenol	81		82		30-130	1		30
2,4,5-Trichlorophenol	102		106		30-130	4		30
Benzoic Acid	41		42			2		30
Benzyl Alcohol	77		76			1		30
Carbazole	109		110		55-144	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		74		21-120
Phenol-d6	50		48		10-120
Nitrobenzene-d5	92		92		23-120
2-Fluorobiphenyl	89		86		15-120
2,4,6-Tribromophenol	**121**	Q	116		10-120
4-Terphenyl-d14	109		108		41-149

Lab Control Sample Analysis

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05 Batch: WG669308-2 WG669308-3								
Acenaphthene	100		100		37-111	0		40
2-Chloronaphthalene	103		104		40-140	1		40
Fluoranthene	124		122		40-140	2		40
Hexachlorobutadiene	104		105		40-140	1		40
Naphthalene	101		101		40-140	0		40
Benzo(a)anthracene	118		119		40-140	1		40
Benzo(a)pyrene	101		101		40-140	0		40
Benzo(b)fluoranthene	108		107		40-140	1		40
Benzo(k)fluoranthene	115		117		40-140	2		40
Chrysene	115		114		40-140	1		40
Acenaphthylene	114		111		40-140	3		40
Anthracene	110		108		40-140	2		40
Benzo(ghi)perylene	111		111		40-140	0		40
Fluorene	108		110		40-140	2		40
Phenanthrene	100		101		40-140	1		40
Dibenzo(a,h)anthracene	111		112		40-140	1		40
Indeno(1,2,3-cd)Pyrene	119		119		40-140	0		40
Pyrene	120		118		26-127	2		40
2-Methylnaphthalene	106		105		40-140	1		40
Pentachlorophenol	**131**	Q	**130**	Q	9-103	1		40
Hexachlorobenzene	111		109		40-140	2		40

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05 Batch: WG669308-2 WG669308-3								
Hexachloroethane	104		106		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		66		21-120
Phenol-d6	50		48		10-120
Nitrobenzene-d5	110		108		23-120
2-Fluorobiphenyl	92		91		15-120
2,4,6-Tribromophenol	**123**	Q	120		10-120
4-Terphenyl-d14	119		116		41-149

Lab Control Sample Analysis
Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,07 Batch: WG669377-2 WG669377-3								
Acenaphthene	88		87		31-137	1		50
Benzidine	15		34			**78**	Q	50
n-Nitrosodimethylamine	68		67			1		50
1,2,4-Trichlorobenzene	82		81		38-107	1		50
Hexachlorobenzene	93		94		40-140	1		50
Bis(2-chloroethyl)ether	84		81		40-140	4		50
2-Chloronaphthalene	96		94		40-140	2		50
1,2-Dichlorobenzene	82		81		40-140	1		50
1,3-Dichlorobenzene	80		77		40-140	4		50
1,4-Dichlorobenzene	80		79		28-104	1		50
3,3'-Dichlorobenzidine	46		76		40-140	49		50
2,4-Dinitrotoluene	**101**	Q	**103**	Q	28-89	2		50
2,6-Dinitrotoluene	108		108		40-140	0		50
Fluoranthene	95		95		40-140	0		50
4-Chlorophenyl phenyl ether	91		92		40-140	1		50
4-Bromophenyl phenyl ether	95		94		40-140	1		50
Azobenzene	95		96		40-140	1		50
Bis(2-chloroisopropyl)ether	86		83		40-140	4		50
Bis(2-chloroethoxy)methane	97		95		40-117	2		50
Hexachlorobutadiene	82		81		40-140	1		50
Hexachlorocyclopentadiene	64		64		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,07 Batch: WG669377-2 WG669377-3								
Hexachloroethane	83		80		40-140	4		50
Isophorone	96		96		40-140	0		50
Naphthalene	84		84		40-140	0		50
Nitrobenzene	85		84		40-140	1		50
NitrosoDiPhenylAmine(NDPA)/DPA	97		98			1		50
n-Nitrosodi-n-propylamine	94		94		32-121	0		50
Bis(2-Ethylhexyl)phthalate	98		99		40-140	1		50
Butyl benzyl phthalate	104		103		40-140	1		50
Di-n-butylphthalate	102		101		40-140	1		50
Di-n-octylphthalate	103		102		40-140	1		50
Diethyl phthalate	97		98		40-140	1		50
Dimethyl phthalate	95		95		40-140	0		50
Benzo(a)anthracene	93		94		40-140	1		50
Benzo(a)pyrene	92		95		40-140	3		50
Benzo(b)fluoranthene	95		100		40-140	5		50
Benzo(k)fluoranthene	88		91		40-140	3		50
Chrysene	88		90		40-140	2		50
Acenaphthylene	103		101		40-140	2		50
Anthracene	97		96		40-140	1		50
Benzo(ghi)perylene	87		86		40-140	1		50
Fluorene	94		94		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,07 Batch: WG669377-2 WG669377-3								
Phenanthrene	91		90		40-140	1		50
Dibenzo(a,h)anthracene	91		90		40-140	1		50
Indeno(1,2,3-cd)Pyrene	93		92		40-140	1		50
Pyrene	95		94		35-142	1		50
Biphenyl	86		84			2		50
Aniline	**35**	Q	63		40-140	**57**	Q	50
4-Chloroaniline	71		77		40-140	8		50
2-Nitroaniline	110		111		47-134	1		50
3-Nitroaniline	36		65		26-129	**57**	Q	50
4-Nitroaniline	93		96		41-125	3		50
Dibenzofuran	91		90		40-140	1		50
2-Methylnaphthalene	92		91		40-140	1		50
1,2,4,5-Tetrachlorobenzene	81		80		40-117	1		50
Acetophenone	94		92		14-144	2		50
2,4,6-Trichlorophenol	112		110		30-130	2		50
P-Chloro-M-Cresol	**114**	Q	**112**	Q	26-103	2		50
2-Chlorophenol	98		96		25-102	2		50
2,4-Dichlorophenol	107		105		30-130	2		50
2,4-Dimethylphenol	116		117		30-130	1		50
2-Nitrophenol	96		97		30-130	1		50
4-Nitrophenol	**125**	Q	**120**	Q	11-114	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

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Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,07 Batch: WG669377-2 WG669377-3								
2,4-Dinitrophenol	77		78		4-130	1		50
4,6-Dinitro-o-cresol	94		97		10-130	3		50
Pentachlorophenol	81		84		17-109	4		50
Phenol	**97**	Q	**98**	Q	26-90	1		50
2-Methylphenol	104		105		30-130.	1		50
3-Methylphenol/4-Methylphenol	107		106		30-130	1		50
2,4,5-Trichlorophenol	115		115		30-130	0		50
Benzoic Acid	41		46			11		50
Benzyl Alcohol	104		103		40-140	1		50
Carbazole	96		95		54-128	1		50
Benzaldehyde	45		44			2		50
Caprolactam	117		117			0		50
Atrazine	108		102			6		50
2,3,4,6-Tetrachlorophenol	101		102			1		50
Pyridine	52		51		10-93	2		50
Parathion, ethyl	116		115		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,07 Batch: WG669377-2 WG669377-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	93		91		25-120
Phenol-d6	101		98		10-120
Nitrobenzene-d5	87		85		23-120
2-Fluorobiphenyl	91		89		30-120
2,4,6-Tribromophenol	93		94		0-136
4-Terphenyl-d14	90		89		18-120

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG669441-2 WG669441-3								
Acenaphthene	110		113		31-137	3		50
Benzidine	79		53			39		50
n-Nitrosodimethylamine	96		98			2		50
1,2,4-Trichlorobenzene	104		**110**	Q	38-107	6		50
Hexachlorobenzene	105		105		40-140	0		50
Bis(2-chloroethyl)ether	103		98		40-140	5		50
2-Chloronaphthalene	110		102		40-140	8		50
1,2-Dichlorobenzene	103		102		40-140	1		50
1,3-Dichlorobenzene	102		102		40-140	0		50
1,4-Dichlorobenzene	102		103		28-104	1		50
3,3'-Dichlorobenzidine	117		102		40-140	14		50
2,4-Dinitrotoluene	**114**	Q	**113**	Q	28-89	1		50
2,6-Dinitrotoluene	112		100		40-140	11		50
Fluoranthene	109		113		40-140	4		50
4-Chlorophenyl phenyl ether	110		112		40-140	2		50
4-Bromophenyl phenyl ether	109		110		40-140	1		50
Azobenzene	114		114		40-140	0		50
Bis(2-chloroisopropyl)ether	105		99		40-140	6		50
Bis(2-chloroethoxy)methane	107		94		40-117	13		50
Hexachlorobutadiene	106		112		40-140	6		50
Hexachlorocyclopentadiene	115		115		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG669441-2 WG669441-3								
Hexachloroethane	102		106		40-140	4		50
Isophorone	107		92		40-140	15		50
Naphthalene	106		108		40-140	2		50
Nitrobenzene	108		110		40-140	2		50
NitrosoDiPhenylAmine(NDPA)/DPA	111		110			1		50
n-Nitrosodi-n-propylamine	108		97		32-121	11		50
Bis(2-Ethylhexyl)phthalate	127		128		40-140	1		50
Butyl benzyl phthalate	112		119		40-140	6		50
Di-n-butylphthalate	120		122		40-140	2		50
Di-n-octylphthalate	123		127		40-140	3		50
Diethyl phthalate	113		112		40-140	1		50
Dimethyl phthalate	112		112		40-140	0		50
Benzo(a)anthracene	116		118		40-140	2		50
Benzo(a)pyrene	119		121		40-140	2		50
Benzo(b)fluoranthene	120		120		40-140	0		50
Benzo(k)fluoranthene	120		120		40-140	0		50
Chrysene	113		116		40-140	3		50
Acenaphthylene	113		102		40-140	10		50
Anthracene	120		124		40-140	3		50
Benzo(ghi)perylene	105		113		40-140	7		50
Fluorene	112		113		40-140	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG669441-2 WG669441-3								
Phenanthrene	112		116		40-140	4		50
Dibenzo(a,h)anthracene	108		116		40-140	7		50
Indeno(1,2,3-cd)Pyrene	108		116		40-140	7		50
Pyrene	107		112		35-142	5		50
Biphenyl	111		117			5		50
Aniline	101		84		40-140	18		50
4-Chloroaniline	123		76		40-140	47		50
2-Nitroaniline	114		102		47-134	11		50
3-Nitroaniline	102		78		26-129	27		50
4-Nitroaniline	107		101		41-125	6		50
Dibenzofuran	111		114		40-140	3		50
2-Methylnaphthalene	110		106		40-140	4		50
1,2,4,5-Tetrachlorobenzene	108		**118**	Q	40-117	9		50
Acetophenone	108		98		14-144	10		50
2,4,6-Trichlorophenol	120		109		30-130	10		50
P-Chloro-M-Cresol	**124**	Q	**109**	Q	26-103	13		50
2-Chlorophenol	**116**	Q	**105**	Q	25-102	10		50
2,4-Dichlorophenol	124		116		30-130	7		50
2,4-Dimethylphenol	124		102		30-130	19		50
2-Nitrophenol	110		98		30-130	12		50
4-Nitrophenol	100		104		11-114	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG669441-2 WG669441-3								
2,4-Dinitrophenol	82		86		4-130	5		50
4,6-Dinitro-o-cresol	100		99		10-130	1		50
Pentachlorophenol	77		86		17-109	11		50
Phenol	**117**	Q	**103**	Q	26-90	13		50
2-Methylphenol	116		100		30-130.	15		50
3-Methylphenol/4-Methylphenol	117		99		30-130	17		50
2,4,5-Trichlorophenol	120		110		30-130	9		50
Benzoic Acid	57		62			8		50
Benzyl Alcohol	117		103		40-140	13		50
Carbazole	112		115		54-128	3		50
Benzaldehyde	102		95			7		50
Caprolactam	120		108			11		50
Atrazine	133		136			2		50
2,3,4,6-Tetrachlorophenol	107		113			5		50
Pyridine	78		81		10-93	4		50
Parathion, ethyl	131		132		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG669441-2 WG669441-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	112		104		25-120
Phenol-d6	113		97		10-120
Nitrobenzene-d5	99		88		23-120
2-Fluorobiphenyl	105		93		30-120
2,4,6-Tribromophenol	111		108		0-136
4-Terphenyl-d14	99		98		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG670247-2 WG670247-3								
Acenaphthene	95		90		31-137	5		50
1,2,4-Trichlorobenzene	92		90		38-107	2		50
Hexachlorobenzene	92		80		40-140	14		50
Bis(2-chloroethyl)ether	82		80		40-140	2		50
2-Chloronaphthalene	89		82		40-140	8		50
1,2-Dichlorobenzene	87		84		40-140	4		50
1,3-Dichlorobenzene	86		84		40-140	2		50
1,4-Dichlorobenzene	86		84		28-104	2		50
3,3'-Dichlorobenzidine	73		66		40-140	10		50
2,4-Dinitrotoluene	**99**	Q	85		28-89	15		50
2,6-Dinitrotoluene	91		76		40-140	18		50
Fluoranthene	95		83		40-140	13		50
4-Chlorophenyl phenyl ether	95		87		40-140	9		50
4-Bromophenyl phenyl ether	96		84		40-140	13		50
Bis(2-chloroisopropyl)ether	83		78		40-140	6		50
Bis(2-chloroethoxy)methane	83		76		40-117	9		50
Hexachlorobutadiene	96		92		40-140	4		50
Hexachlorocyclopentadiene	108		104		40-140	4		50
Hexachloroethane	91		88		40-140	3		50
Isophorone	82		73		40-140	12		50
Naphthalene	91		87		40-140	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG670247-2 WG670247-3								
Nitrobenzene	91		88		40-140	3		50
NitrosoDiPhenylAmine(NDPA)/DPA	96		84			13		50
n-Nitrosodi-n-propylamine	84		78		32-121	7		50
Bis(2-Ethylhexyl)phthalate	112		99		40-140	12		50
Butyl benzyl phthalate	98		82		40-140	18		50
Di-n-butylphthalate	106		91		40-140	15		50
Di-n-octylphthalate	108		95		40-140	13		50
Diethyl phthalate	98		85		40-140	14		50
Dimethyl phthalate	97		87		40-140	11		50
Benzo(a)anthracene	100		92		40-140	8		50
Benzo(a)pyrene	99		91		40-140	8		50
Benzo(b)fluoranthene	99		93		40-140	6		50
Benzo(k)fluoranthene	98		87		40-140	12		50
Chrysene	96		88		40-140	9		50
Acenaphthylene	93		81		40-140	14		50
Anthracene	106		97		40-140	9		50
Benzo(ghi)perylene	89		85		40-140	5		50
Fluorene	96		88		40-140	9		50
Phenanthrene	98		90		40-140	9		50
Dibenzo(a,h)anthracene	92		88		40-140	4		50
Indeno(1,2,3-cd)Pyrene	92		86		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG670247-2 WG670247-3								
Pyrene	93		81		35-142	14		50
Biphenyl	96		94			2		50
4-Chloroaniline	47		40		40-140	16		50
2-Nitroaniline	94		79		47-134	17		50
3-Nitroaniline	55		47		26-129	16		50
4-Nitroaniline	85		73		41-125	15		50
Dibenzofuran	95		88		40-140	8		50
2-Methylnaphthalene	91		85		40-140	7		50
1,2,4,5-Tetrachlorobenzene	97		96		40-117	1		50
Acetophenone	86		81		14-144	6		50
2,4,6-Trichlorophenol	100		88		30-130	13		50
P-Chloro-M-Cresol	102		88		26-103	15		50
2-Chlorophenol	92		86		25-102	7		50
2,4-Dichlorophenol	102		94		30-130	8		50
2,4-Dimethylphenol	101		90		30-130	12		50
2-Nitrophenol	87		81		30-130	7		50
4-Nitrophenol	**117**	Q	99		11-114	17		50
2,4-Dinitrophenol	70		62		4-130	12		50
4,6-Dinitro-o-cresol	86		70		10-130	21		50
Pentachlorophenol	82		73		17-109	12		50
Phenol	84		78		26-90	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG670247-2 WG670247-3								
2-Methylphenol	91		82		30-130.	10		50
3-Methylphenol/4-Methylphenol	89		81		30-130	9		50
2,4,5-Trichlorophenol	101		85		30-130	17		50
Benzoic Acid	63		55			14		50
Benzyl Alcohol	92		84		40-140	9		50
Carbazole	98		88		54-128	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	97		91		25-120
Phenol-d6	95		85		10-120
Nitrobenzene-d5	86		81		23-120
2-Fluorobiphenyl	91		83		30-120
2,4,6-Tribromophenol	109		101		0-136
4-Terphenyl-d14	93		79		18-120

PCBS

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-01	Date Collected:	02/06/14 08:00
Client ID:	SB-5 (7-10)	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/07/14 06:14
Analytical Date:	02/08/14 01:29	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/07/14
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	2.97	1	A
Aroclor 1221	ND		ug/kg	37.6	3.46	1	A
Aroclor 1232	ND		ug/kg	37.6	4.40	1	A
Aroclor 1242	ND		ug/kg	37.6	4.60	1	A
Aroclor 1248	ND		ug/kg	37.6	3.17	1	A
Aroclor 1254	ND		ug/kg	37.6	3.09	1	A
Aroclor 1260	25.4	J	ug/kg	37.6	2.86	1	B
Aroclor 1262	ND		ug/kg	37.6	1.86	1	A
Aroclor 1268	ND		ug/kg	37.6	5.45	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-03	Date Collected:	02/06/14 11:55
Client ID:	SB-2 (0-2)	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/07/14 06:14
Analytical Date:	02/08/14 01:41	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/07/14
Percent Solids:	90%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	2.79	1	A
Aroclor 1221	ND		ug/kg	35.3	3.25	1	A
Aroclor 1232	ND		ug/kg	35.3	4.13	1	A
Aroclor 1242	ND		ug/kg	35.3	4.32	1	A
Aroclor 1248	ND		ug/kg	35.3	2.98	1	A
Aroclor 1254	ND		ug/kg	35.3	2.90	1	A
Aroclor 1260	24.8	J	ug/kg	35.3	2.69	1	A
Aroclor 1262	ND		ug/kg	35.3	1.75	1	A
Aroclor 1268	ND		ug/kg	35.3	5.11	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	113		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-04	Date Collected:	02/06/14 13:35
Client ID:	SB-1 (0-2)	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/08/14 00:30
Analytical Date:	02/08/14 17:42	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	02/08/14
Percent Solids:	92%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.6	2.73	1	A
Aroclor 1221	ND		ug/kg	34.6	3.19	1	A
Aroclor 1232	ND		ug/kg	34.6	4.05	1	A
Aroclor 1242	ND		ug/kg	34.6	4.23	1	A
Aroclor 1248	ND		ug/kg	34.6	2.92	1	A
Aroclor 1254	165		ug/kg	34.6	2.84	1	A
Aroclor 1260	23.7	J	ug/kg	34.6	2.64	1	B
Aroclor 1262	ND		ug/kg	34.6	1.72	1	A
Aroclor 1268	ND		ug/kg	34.6	5.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-05	Date Collected:	02/06/14 08:35
Client ID:	FIELD BLANK	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/07/14 10:13
Analytical Date:	02/08/14 19:12	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/07/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-07	Date Collected:	02/06/14 09:25
Client ID:	SB-3 (7-10)	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/08/14 00:30
Analytical Date:	02/08/14 17:55	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	02/08/14
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	2.85	1	A
Aroclor 1221	ND		ug/kg	36.1	3.33	1	A
Aroclor 1232	ND		ug/kg	36.1	4.23	1	A
Aroclor 1242	40.8		ug/kg	36.1	4.42	1	B
Aroclor 1248	ND		ug/kg	36.1	3.05	1	A
Aroclor 1254	ND		ug/kg	36.1	2.97	1	A
Aroclor 1260	10.3	J	ug/kg	36.1	2.75	1	A
Aroclor 1262	ND		ug/kg	36.1	1.79	1	A
Aroclor 1268	ND		ug/kg	36.1	5.23	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/07/14 22:50
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 02/07/14 06:14
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/07/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03 Batch: WG669127-1						
Aroclor 1016	ND		ug/kg	32.9	2.60	A
Aroclor 1221	ND		ug/kg	32.9	3.03	A
Aroclor 1232	ND		ug/kg	32.9	3.86	A
Aroclor 1242	ND		ug/kg	32.9	4.03	A
Aroclor 1248	ND		ug/kg	32.9	2.78	A
Aroclor 1254	ND		ug/kg	32.9	2.70	A
Aroclor 1260	ND		ug/kg	32.9	2.51	A
Aroclor 1262	ND		ug/kg	32.9	1.63	A
Aroclor 1268	ND		ug/kg	32.9	4.77	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	**164**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	121		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/08/14 18:35
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 10:13
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/07/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05 Batch: WG669199-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/08/14 20:33
Analyst: TQ

Extraction Method: EPA 3546
Extraction Date: 02/08/14 00:30
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/08/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04,07 Batch: WG669351-1						
Aroclor 1016	ND		ug/kg	32.6	2.57	A
Aroclor 1221	ND		ug/kg	32.6	3.00	A
Aroclor 1232	ND		ug/kg	32.6	3.82	A
Aroclor 1242	ND		ug/kg	32.6	3.99	A
Aroclor 1248	ND		ug/kg	32.6	2.75	A
Aroclor 1254	ND		ug/kg	32.6	2.68	A
Aroclor 1260	ND		ug/kg	32.6	2.48	A
Aroclor 1262	ND		ug/kg	32.6	1.62	A
Aroclor 1268	ND		ug/kg	32.6	4.73	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	55		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG669127-2 WG669127-3									
Aroclor 1016	77		83		40-140	8		50	A
Aroclor 1260	80		79		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		97		30-150	A
Decachlorobiphenyl	133		127		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		107		30-150	B
Decachlorobiphenyl	144		131		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05 Batch: WG669199-2 WG669199-3									
Aroclor 1016	85		95		40-140	10		50	A
Aroclor 1260	79		90		40-140	13		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		77		30-150	A
Decachlorobiphenyl	80		89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		84		30-150	B
Decachlorobiphenyl	82		94		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04,07 Batch: WG669351-2 WG669351-3									
Aroclor 1016	80		98		40-140	20		50	A
Aroclor 1260	66		76		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		99		30-150	A
Decachlorobiphenyl	80		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		93		30-150	B
Decachlorobiphenyl	61		70		30-150	B

PESTICIDES

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-01	Date Collected:	02/06/14 08:00
Client ID:	SB-5 (7-10)	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 11:31
Analytical Date:	02/12/14 10:02	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/11/14
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.350	1	A
Lindane	ND		ug/kg	0.745	0.333	1	A
Alpha-BHC	ND		ug/kg	0.745	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.678	1	A
Heptachlor	2.46		ug/kg	0.894	0.401	1	A
Aldrin	ND		ug/kg	1.79	0.629	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.00	1	A
Endrin	ND		ug/kg	0.745	0.305	1	A
Endrin ketone	ND		ug/kg	1.79	0.460	1	A
Dieldrin	ND		ug/kg	1.12	0.558	1	A
4,4'-DDE	ND		ug/kg	1.79	0.413	1	A
4,4'-DDD	ND		ug/kg	1.79	0.638	1	A
4,4'-DDT	ND		ug/kg	3.35	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.422	1	A
Endosulfan II	ND		ug/kg	1.79	0.597	1	A
Endosulfan sulfate	ND		ug/kg	0.745	0.340	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.38	1	A
cis-Chlordane	10.8		ug/kg	2.23	0.623	1	A
trans-Chlordane	11.4	P	ug/kg	2.23	0.590	1	A
Chlordane	113		ug/kg	14.5	5.92	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-03	Date Collected:	02/06/14 11:55
Client ID:	SB-2 (0-2)	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 11:31
Analytical Date:	02/12/14 10:14	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/11/14
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.326	1	A
Lindane	ND		ug/kg	0.694	0.310	1	A
Alpha-BHC	ND		ug/kg	0.694	0.197	1	A
Beta-BHC	ND		ug/kg	1.67	0.632	1	A
Heptachlor	2.28		ug/kg	0.833	0.374	1	B
Aldrin	ND		ug/kg	1.67	0.587	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.937	1	A
Endrin	ND		ug/kg	0.694	0.285	1	A
Endrin ketone	ND		ug/kg	1.67	0.429	1	A
Dieldrin	ND		ug/kg	1.04	0.521	1	A
4,4'-DDE	ND		ug/kg	1.67	0.385	1	A
4,4'-DDD	ND		ug/kg	1.67	0.594	1	A
4,4'-DDT	ND		ug/kg	3.12	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.394	1	A
Endosulfan II	ND		ug/kg	1.67	0.557	1	A
Endosulfan sulfate	ND		ug/kg	0.694	0.317	1	A
Methoxychlor	ND		ug/kg	3.12	0.972	1	A
Toxaphene	ND		ug/kg	31.2	8.75	1	A
cis-Chlordane	18.7	P	ug/kg	2.08	0.580	1	A
trans-Chlordane	10.4		ug/kg	2.08	0.550	1	A
Chlordane	107		ug/kg	13.5	5.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-04	Date Collected:	02/06/14 13:35
Client ID:	SB-1 (0-2)	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 11:31
Analytical Date:	02/12/14 16:08	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/11/14
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.688	0.308	1	A
Alpha-BHC	ND		ug/kg	0.688	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.626	1	A
Heptachlor	2.50		ug/kg	0.826	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.581	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.929	1	A
Endrin	ND		ug/kg	0.688	0.282	1	A
Endrin ketone	ND		ug/kg	1.65	0.425	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.552	1	A
Endosulfan sulfate	ND		ug/kg	0.688	0.314	1	A
Methoxychlor	ND		ug/kg	3.10	0.963	1	A
Toxaphene	ND		ug/kg	31.0	8.67	1	A
cis-Chlordane	14.7	P	ug/kg	2.06	0.575	1	A
trans-Chlordane	10.0	P	ug/kg	2.06	0.545	1	A
Chlordane	109		ug/kg	13.4	5.47	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-05	Date Collected:	02/06/14 08:35
Client ID:	FIELD BLANK	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/07/14 10:14
Analytical Date:	02/08/14 23:21	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402939-07	Date Collected:	02/06/14 09:25
Client ID:	SB-3 (7-10)	Date Received:	02/06/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 11:31
Analytical Date:	02/11/14 07:52	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/10/14
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.344	1	A
Lindane	ND		ug/kg	0.732	0.327	1	A
Alpha-BHC	ND		ug/kg	0.732	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.666	1	A
Heptachlor	ND		ug/kg	0.878	0.394	1	A
Aldrin	ND		ug/kg	1.76	0.618	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.988	1	A
Endrin	ND		ug/kg	0.732	0.300	1	A
Endrin ketone	ND		ug/kg	1.76	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.549	1	A
4,4'-DDE	ND		ug/kg	1.76	0.406	1	A
4,4'-DDD	ND		ug/kg	1.76	0.626	1	A
4,4'-DDT	ND		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.76	0.415	1	A
Endosulfan II	ND		ug/kg	1.76	0.587	1	A
Endosulfan sulfate	ND		ug/kg	0.732	0.334	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.22	1	A
cis-Chlordane	ND		ug/kg	2.19	0.612	1	A
trans-Chlordane	ND		ug/kg	2.19	0.579	1	A
Chlordane	ND		ug/kg	14.3	5.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	31		30-150	A
2,4,5,6-Tetrachloro-m-xylene	116		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/08/14 23:08
Analyst: SH

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 10:14
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG669202-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/11/14 07:14
Analyst: SH

Extraction Method: EPA 3546
Extraction Date: 02/08/14 11:31
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03-04,07 Batch: WG669405-1						
Delta-BHC	ND		ug/kg	1.54	0.303	A
Lindane	ND		ug/kg	0.644	0.288	A
Alpha-BHC	ND		ug/kg	0.644	0.183	A
Beta-BHC	ND		ug/kg	1.54	0.586	A
Heptachlor	ND		ug/kg	0.773	0.346	A
Aldrin	ND		ug/kg	1.54	0.544	A
Heptachlor epoxide	ND		ug/kg	2.90	0.869	A
Endrin	ND		ug/kg	0.644	0.264	A
Endrin ketone	ND		ug/kg	1.54	0.398	A
Dieldrin	ND		ug/kg	0.966	0.483	A
4,4'-DDE	ND		ug/kg	1.54	0.357	A
4,4'-DDD	ND		ug/kg	1.54	0.551	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.365	A
Endosulfan II	ND		ug/kg	1.54	0.516	A
Endosulfan sulfate	ND		ug/kg	0.644	0.294	A
Methoxychlor	ND		ug/kg	2.90	0.901	A
Toxaphene	ND		ug/kg	29.0	8.11	A
cis-Chlordane	ND		ug/kg	1.93	0.538	A
trans-Chlordane	ND		ug/kg	1.93	0.510	A
Chlordane	ND		ug/kg	12.6	5.12	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	75		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG669202-2 WG669202-3									
Delta-BHC	69		88		30-150	**25**	Q	20	A
Lindane	70		89		30-150	**23**	Q	20	A
Alpha-BHC	68		85		30-150	**23**	Q	20	A
Beta-BHC	70		87		30-150	**22**	Q	20	A
Heptachlor	64		82		30-150	**24**	Q	20	A
Aldrin	68		87		30-150	**25**	Q	20	A
Heptachlor epoxide	68		88		30-150	**25**	Q	20	A
Endrin	72		94		30-150	**26**	Q	20	A
Endrin ketone	69		85		30-150	**22**	Q	20	A
Dieldrin	71		92		30-150	**25**	Q	20	A
4,4'-DDE	68		88		30-150	**26**	Q	20	A
4,4'-DDD	70		90		30-150	**25**	Q	20	A
4,4'-DDT	74		95		30-150	**25**	Q	20	A
Endosulfan I	68		88		30-150	**25**	Q	20	A
Endosulfan II	70		88		30-150	**23**	Q	20	A
Endosulfan sulfate	63		80		30-150	**24**	Q	20	A
Methoxychlor	69		86		30-150	**23**	Q	20	A
cis-Chlordane	68		87		30-150	**25**	Q	20	A
trans-Chlordane	66		85		30-150	**26**	Q	20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG669202-2 WG669202-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		71		30-150	A
Decachlorobiphenyl	66		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		68		30-150	B
Decachlorobiphenyl	69		87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-04,07 Batch: WG669405-2 WG669405-3									
Delta-BHC	72		79		30-150	9		30	A
Lindane	75		82		30-150	9		30	A
Alpha-BHC	73		80		30-150	9		30	A
Beta-BHC	75		80		30-150	6		30	A
Heptachlor	72		80		30-150	11		30	A
Aldrin	74		82		30-150	10		30	A
Heptachlor epoxide	70		77		30-150	10		30	A
Endrin	74		81		30-150	9		30	A
Endrin ketone	69		74		30-150	7		30	A
Dieldrin	72		79		30-150	9		30	A
4,4'-DDE	70		77		30-150	10		30	A
4,4'-DDD	70		77		30-150	10		30	A
4,4'-DDT	75		82		30-150	9		30	A
Endosulfan I	70		77		30-150	10		30	A
Endosulfan II	70		77		30-150	10		30	A
Endosulfan sulfate	64		69		30-150	8		30	A
Methoxychlor	68		73		30-150	7		30	A
cis-Chlordane	68		77		30-150	12		30	A
trans-Chlordane	68		75		30-150	10		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-04,07 Batch: WG669405-2 WG669405-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		73		30-150	A
Decachlorobiphenyl	68		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		67		30-150	B
Decachlorobiphenyl	71		80		30-150	B

METALS

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-01
Client ID: SB-5 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 02/06/14 08:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5400		mg/kg	8.7	1.7	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.3	0.69	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Arsenic, Total	5.6		mg/kg	0.87	0.17	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Barium, Total	39		mg/kg	0.87	0.26	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Beryllium, Total	0.22	J	mg/kg	0.43	0.09	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Cadmium, Total	0.10	J	mg/kg	0.87	0.06	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Calcium, Total	39000		mg/kg	8.7	2.6	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Chromium, Total	13		mg/kg	0.87	0.17	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Cobalt, Total	3.4		mg/kg	1.7	0.43	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Copper, Total	33		mg/kg	0.87	0.17	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Iron, Total	8200		mg/kg	4.3	1.7	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Lead, Total	62		mg/kg	4.3	0.17	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Magnesium, Total	5800		mg/kg	8.7	0.87	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Manganese, Total	150		mg/kg	0.87	0.17	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Mercury, Total	0.06	J	mg/kg	0.09	0.02	1	02/12/14 08:45	02/12/14 10:31	EPA 7471B	1,7471B	AK
Nickel, Total	8.8		mg/kg	2.2	0.35	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Potassium, Total	570		mg/kg	220	35.	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.87	0.17	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Sodium, Total	420		mg/kg	170	26.	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.35	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Vanadium, Total	17		mg/kg	0.87	0.09	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT
Zinc, Total	230		mg/kg	4.3	0.61	2	02/07/14 11:12	02/07/14 20:08	EPA 3050B	1,6010C	TT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-02
Client ID: SB-5 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 02/06/14 09:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2800		mg/kg	8.6	1.7	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.3	0.69	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Arsenic, Total	3.6		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Barium, Total	25		mg/kg	0.86	0.26	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Beryllium, Total	0.21	J	mg/kg	0.43	0.09	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.86	0.06	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Calcium, Total	1100		mg/kg	8.6	2.6	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Chromium, Total	8.8		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Cobalt, Total	3.1		mg/kg	1.7	0.43	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Copper, Total	7.8		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Iron, Total	7500		mg/kg	4.3	1.7	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Lead, Total	2.6	J	mg/kg	4.3	0.17	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Magnesium, Total	1500		mg/kg	8.6	0.86	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Manganese, Total	170		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/12/14 08:45	02/12/14 10:33	EPA 7471B	1,7471B	AK
Nickel, Total	9.2		mg/kg	2.2	0.34	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Potassium, Total	740		mg/kg	220	34.	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Sodium, Total	170		mg/kg	170	26.	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Vanadium, Total	10		mg/kg	0.86	0.09	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT
Zinc, Total	19		mg/kg	4.3	0.60	2	02/07/14 11:12	02/07/14 20:12	EPA 3050B	1,6010C	TT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-03
Client ID: SB-2 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 90%

Date Collected: 02/06/14 11:55
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5500		mg/kg	8.8	1.8	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Antimony, Total	1.6	J	mg/kg	4.4	0.70	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Arsenic, Total	8.2		mg/kg	0.88	0.18	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Barium, Total	49		mg/kg	0.88	0.26	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Beryllium, Total	0.20	J	mg/kg	0.44	0.09	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Cadmium, Total	0.29	J	mg/kg	0.88	0.06	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Calcium, Total	37000		mg/kg	8.8	2.6	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Chromium, Total	190		mg/kg	0.88	0.18	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Cobalt, Total	4.5		mg/kg	1.8	0.44	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Copper, Total	68		mg/kg	0.88	0.18	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Iron, Total	11000		mg/kg	4.4	1.8	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Lead, Total	100		mg/kg	4.4	0.18	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Magnesium, Total	6400		mg/kg	8.8	0.88	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Manganese, Total	350		mg/kg	0.88	0.18	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Mercury, Total	0.32		mg/kg	0.08	0.02	1	02/12/14 08:45	02/12/14 10:34	EPA 7471B	1,7471B	AK
Nickel, Total	14		mg/kg	2.2	0.35	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Potassium, Total	870		mg/kg	220	35.	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.8	0.26	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.88	0.18	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Sodium, Total	590		mg/kg	180	26.	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.8	0.35	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Vanadium, Total	20		mg/kg	0.88	0.09	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT
Zinc, Total	200		mg/kg	4.4	0.61	2	02/07/14 11:12	02/07/14 20:15	EPA 3050B	1,6010C	TT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-04
Client ID: SB-1 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 92%

Date Collected: 02/06/14 13:35
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4400		mg/kg	8.6	1.7	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.3	0.68	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Arsenic, Total	12		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Barium, Total	28		mg/kg	0.86	0.26	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Beryllium, Total	0.17	J	mg/kg	0.43	0.09	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Cadmium, Total	0.87		mg/kg	0.86	0.06	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Calcium, Total	60000		mg/kg	8.6	2.6	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Chromium, Total	24		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Cobalt, Total	2.7		mg/kg	1.7	0.43	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Copper, Total	32		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Iron, Total	7700		mg/kg	4.3	1.7	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Lead, Total	26		mg/kg	4.3	0.17	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Magnesium, Total	12000		mg/kg	8.6	0.86	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Manganese, Total	100		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.07	0.02	1	02/12/14 08:45	02/12/14 10:36	EPA 7471B	1,7471B	AK
Nickel, Total	8.0		mg/kg	2.1	0.34	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Potassium, Total	580		mg/kg	210	34.	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.86	0.17	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Sodium, Total	380		mg/kg	170	26.	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Vanadium, Total	17		mg/kg	0.86	0.09	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT
Zinc, Total	230		mg/kg	4.3	0.60	2	02/07/14 11:12	02/07/14 20:19	EPA 3050B	1,6010C	TT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-05
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/06/14 08:35
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.00524	J	mg/l	0.0100	0.00200	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Antimony, Total	0.00038	J	mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Barium, Total	0.00099		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Calcium, Total	ND		mg/l	0.100	0.0320	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Chromium, Total	0.00049	J	mg/l	0.00100	0.00020	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Copper, Total	0.00025	J	mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Manganese, Total	0.00257		mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/07/14 07:53	02/07/14 12:30	EPA 7470A	1,7470A	AK
Nickel, Total	0.00014	J	mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Sodium, Total	0.0869	J	mg/l	0.100	0.0150	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM
Zinc, Total	0.00177	J	mg/l	0.01000	0.00120	1	02/07/14 10:37	02/10/14 18:01	EPA 3005A	1,6020A	BM

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-07
Client ID: SB-3 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 02/06/14 09:25
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3900		mg/kg	8.6	1.7	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Antimony, Total	0.84	J	mg/kg	4.3	0.69	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Arsenic, Total	3.8		mg/kg	0.86	0.17	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Barium, Total	28		mg/kg	0.86	0.26	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Beryllium, Total	0.16	J	mg/kg	0.43	0.09	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Cadmium, Total	0.16	J	mg/kg	0.86	0.06	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Calcium, Total	12000		mg/kg	8.6	2.6	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Chromium, Total	9.3		mg/kg	0.86	0.17	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Cobalt, Total	3.9		mg/kg	1.7	0.43	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Copper, Total	25		mg/kg	0.86	0.17	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Iron, Total	7600		mg/kg	4.3	1.7	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Lead, Total	55		mg/kg	4.3	0.17	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Magnesium, Total	2300		mg/kg	8.6	0.86	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Manganese, Total	110		mg/kg	0.86	0.17	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Mercury, Total	0.13		mg/kg	0.08	0.02	1	02/12/14 08:45	02/12/14 10:38	EPA 7471B	1,7471B	AK
Nickel, Total	8.1		mg/kg	2.2	0.34	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Potassium, Total	470		mg/kg	220	34.	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Selenium, Total	ND		mg/kg	1.7	0.26	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Silver, Total	ND		mg/kg	0.86	0.17	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Sodium, Total	340		mg/kg	170	26.	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	1.7	0.34	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Vanadium, Total	23		mg/kg	0.86	0.09	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC
Zinc, Total	55		mg/kg	4.3	0.60	2	02/10/14 14:16	02/10/14 22:03	EPA 3050B	1,6010C	BC

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 05 Batch: WG669131-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/07/14 07:53	02/07/14 12:17	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 05 Batch: WG669192-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Antimony, Total	0.00013	J	mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Arsenic, Total	0.00021	J	mg/l	0.00050	0.00020	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Calcium, Total	ND		mg/l	0.100	0.0320	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Chromium, Total	0.00039	J	mg/l	0.00100	0.00020	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Copper, Total	0.00016	J	mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Manganese, Total	ND		mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Nickel, Total	0.00011	J	mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Sodium, Total	0.0503	J	mg/l	0.100	0.0150	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-04 Batch: WG669209-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Antimony, Total	ND		mg/kg	2.0	0.32	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Arsenic, Total	ND		mg/kg	0.40	0.08	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Barium, Total	ND		mg/kg	0.40	0.12	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Beryllium, Total	ND		mg/kg	0.20	0.04	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.40	0.03	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Calcium, Total	ND		mg/kg	4.0	1.2	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Chromium, Total	ND		mg/kg	0.40	0.08	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Cobalt, Total	ND		mg/kg	0.80	0.20	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Copper, Total	0.09	J	mg/kg	0.40	0.08	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Iron, Total	1.3	J	mg/kg	2.0	0.80	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Lead, Total	ND		mg/kg	2.0	0.08	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Magnesium, Total	ND		mg/kg	4.0	0.40	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Manganese, Total	ND		mg/kg	0.40	0.08	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Nickel, Total	ND		mg/kg	1.0	0.16	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Potassium, Total	ND		mg/kg	100	16.	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Selenium, Total	ND		mg/kg	0.80	0.12	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Silver, Total	ND		mg/kg	0.40	0.08	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Sodium, Total	ND		mg/kg	80	12.	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Thallium, Total	ND		mg/kg	0.80	0.16	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Vanadium, Total	ND		mg/kg	0.40	0.04	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT
Zinc, Total	ND		mg/kg	2.0	0.28	1	02/07/14 11:12	02/07/14 17:21	1,6010C	TT

Prep Information

Digestion Method: EPA 3050B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 07 Batch: WG669572-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Antimony, Total	ND		mg/kg	2.0	0.32	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Arsenic, Total	0.08	J	mg/kg	0.40	0.08	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Barium, Total	ND		mg/kg	0.40	0.12	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Beryllium, Total	ND		mg/kg	0.20	0.04	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Cadmium, Total	ND		mg/kg	0.40	0.03	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Calcium, Total	ND		mg/kg	4.0	1.2	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Chromium, Total	ND		mg/kg	0.40	0.08	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Cobalt, Total	ND		mg/kg	0.80	0.20	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Copper, Total	ND		mg/kg	0.40	0.08	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Iron, Total	ND		mg/kg	2.0	0.80	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Lead, Total	ND		mg/kg	2.0	0.08	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Magnesium, Total	ND		mg/kg	4.0	0.40	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Manganese, Total	ND		mg/kg	0.40	0.08	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Nickel, Total	ND		mg/kg	1.0	0.16	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Potassium, Total	ND		mg/kg	100	16.	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Selenium, Total	ND		mg/kg	0.80	0.12	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Silver, Total	ND		mg/kg	0.40	0.08	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Sodium, Total	ND		mg/kg	80	12.	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Thallium, Total	ND		mg/kg	0.80	0.16	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Vanadium, Total	ND		mg/kg	0.40	0.04	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC
Zinc, Total	ND		mg/kg	2.0	0.28	1	02/10/14 14:16	02/10/14 23:57	1,6010C	BC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-04,07 Batch: WG669764-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/12/14 08:45	02/12/14 10:05	1,7471B	AK

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1402939
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 05 Batch: WG669131-2								
Mercury, Total	91		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 05 Batch: WG669192-2					
Aluminum, Total	104	-	80-120	-	
Antimony, Total	89	-	80-120	-	
Arsenic, Total	100	-	80-120	-	
Barium, Total	96	-	80-120	-	
Beryllium, Total	94	-	80-120	-	
Cadmium, Total	98	-	80-120	-	
Calcium, Total	105	-	80-120	-	
Chromium, Total	99	-	80-120	-	
Cobalt, Total	104	-	80-120	-	
Copper, Total	105	-	80-120	-	
Iron, Total	108	-	80-120	-	
Lead, Total	95	-	80-120	-	
Magnesium, Total	106	-	80-120	-	
Manganese, Total	100	-	80-120	-	
Nickel, Total	104	-	80-120	-	
Potassium, Total	101	-	80-120	-	
Selenium, Total	100	-	80-120	-	
Silver, Total	95	-	80-120	-	
Sodium, Total	105	-	80-120	-	
Thallium, Total	90	-	80-120	-	
Vanadium, Total	98	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 05 Batch: WG669192-2					
Zinc, Total	105	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG669209-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	78	-	29-171	-	
Antimony, Total	112	-	4-196	-	
Arsenic, Total	104	-	81-119	-	
Barium, Total	96	-	83-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	94	-	82-117	-	
Calcium, Total	91	-	83-117	-	
Chromium, Total	92	-	80-119	-	
Cobalt, Total	99	-	83-117	-	
Copper, Total	101	-	83-117	-	
Iron, Total	94	-	51-150	-	
Lead, Total	95	-	80-120	-	
Magnesium, Total	83	-	74-126	-	
Manganese, Total	112	-	83-117	-	
Nickel, Total	94	-	82-117	-	
Potassium, Total	91	-	74-126	-	
Selenium, Total	98	-	80-120	-	
Silver, Total	98	-	66-134	-	
Sodium, Total	95	-	74-127	-	
Thallium, Total	101	-	79-120	-	
Vanadium, Total	98	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG669209-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07 Batch: WG669572-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	82	-	29-171	-	
Antimony, Total	106	-	4-196	-	
Arsenic, Total	94	-	81-119	-	
Barium, Total	92	-	83-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	89	-	82-117	-	
Calcium, Total	92	-	83-117	-	
Chromium, Total	92	-	80-119	-	
Cobalt, Total	94	-	83-117	-	
Copper, Total	101	-	83-117	-	
Iron, Total	94	-	51-150	-	
Lead, Total	91	-	80-120	-	
Magnesium, Total	92	-	74-126	-	
Manganese, Total	97	-	83-117	-	
Nickel, Total	94	-	82-117	-	
Potassium, Total	91	-	74-126	-	
Selenium, Total	91	-	80-120	-	
Silver, Total	94	-	66-134	-	
Sodium, Total	98	-	74-127	-	
Thallium, Total	101	-	79-120	-	
Vanadium, Total	89	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1402939

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07 Batch: WG669572-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	
Total Metals - Westborough Lab Associated sample(s): 01-04,07 Batch: WG669764-2 SRM Lot Number: 0518-10-02					
Mercury, Total	114	-	67-133	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 05 QC Batch ID: WG669131-4 QC Sample: L1402995-01 Client ID: MS Sample												
Mercury, Total	0.00128	0.005	0.00572	89		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 05 QC Batch ID: WG669192-4 QC Sample: L1402952-02 Client ID: MS Sample										
Aluminum, Total	1.91	2	3.94	102		-	-	75-125	-	20
Antimony, Total	0.00077J	0.5	0.4475	90		-	-	75-125	-	20
Arsenic, Total	0.0050	0.12	0.1203	96		-	-	75-125	-	20
Barium, Total	0.0085	2	1.880	94		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.04531	91		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.04860	95		-	-	75-125	-	20
Calcium, Total	7.22	10	16.8	96		-	-	75-125	-	20
Chromium, Total	0.0157	0.2	0.2023	93		-	-	75-125	-	20
Cobalt, Total	0.0013	0.5	0.4973	99		-	-	75-125	-	20
Copper, Total	0.01191	0.25	0.2634	100		-	-	75-125	-	20
Iron, Total	1.93	1	2.91	98		-	-	75-125	-	20
Lead, Total	0.0054	0.51	0.4769	92		-	-	75-125	-	20
Magnesium, Total	1.66	10	11.6	99		-	-	75-125	-	20
Manganese, Total	0.0506	0.5	0.5300	96		-	-	75-125	-	20
Nickel, Total	0.0034	0.5	0.4984	99		-	-	75-125	-	20
Potassium, Total	22.0	10	30.0	80		-	-	75-125	-	20
Selenium, Total	0.001J	0.12	0.116	97		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04520	90		-	-	75-125	-	20
Sodium, Total	205.	10	200	**0**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1060	88		-	-	75-125	-	20
Vanadium, Total	0.0240	0.5	0.4930	94		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 05 QC Batch ID: WG669192-4 QC Sample: L1402952-02 Client ID: MS Sample									
Zinc, Total	0.0217	0.5	0.5231	100	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG669209-4 QC Sample: L1403011-01 Client ID: MS Sample										
Aluminum, Total	2600	176	3100	**283**	Q	-	-	75-125	-	35
Antimony, Total	ND	44.1	39	88		-	-	75-125	-	35
Arsenic, Total	4.7	10.6	14	88		-	-	75-125	-	35
Barium, Total	24.	176	180	88		-	-	75-125	-	35
Beryllium, Total	0.21J	4.41	4.1	93		-	-	75-125	-	35
Cadmium, Total	ND	4.5	3.9	87		-	-	75-125	-	35
Calcium, Total	1000	882	2000	113		-	-	75-125	-	35
Chromium, Total	7.0	17.6	23	91		-	-	75-125	-	35
Cobalt, Total	2.0	44.1	43	93		-	-	75-125	-	35
Copper, Total	11.	22	32	95		-	-	75-125	-	35
Iron, Total	6500	88.2	6600	113		-	-	75-125	-	35
Lead, Total	9.2	45	47	84		-	-	75-125	-	35
Magnesium, Total	1300	882	2200	102		-	-	75-125	-	35
Manganese, Total	71.	44.1	92	**48**	Q	-	-	75-125	-	35
Nickel, Total	5.0	44.1	45	91		-	-	75-125	-	35
Potassium, Total	720	882	1600	100		-	-	75-125	-	35
Selenium, Total	ND	10.6	9.4	89		-	-	75-125	-	35
Silver, Total	ND	26.5	24	91		-	-	75-125	-	35
Sodium, Total	140J	882	960	109		-	-	75-125	-	35
Thallium, Total	ND	10.6	9.3	88		-	-	75-125	-	35
Vanadium, Total	11.	44.1	52	93		-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG669209-4 QC Sample: L1403011-01 Client ID: MS Sample									
Zinc, Total	18.	44.1	58	91	-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07 QC Batch ID: WG669572-4 QC Sample: L1402931-01 Client ID: MS Sample										
Aluminum, Total	8700	172	9200	**290**	Q	-	-	75-125	-	35
Antimony, Total	ND	43.1	34	79		-	-	75-125	-	35
Arsenic, Total	48.	10.4	39	**0**	Q	-	-	75-125	-	35
Barium, Total	62.	172	210	86		-	-	75-125	-	35
Beryllium, Total	0.69	4.31	4.3	84		-	-	75-125	-	35
Cadmium, Total	0.09J	4.4	3.5	80		-	-	75-125	-	35
Calcium, Total	1100	862	1800	81		-	-	75-125	-	35
Chromium, Total	21.	17.2	34	75		-	-	75-125	-	35
Cobalt, Total	7.6	43.1	46	89		-	-	75-125	-	35
Copper, Total	64.	21.6	73	**42**	Q	-	-	75-125	-	35
Iron, Total	16000	86.2	17000	**1160**	Q	-	-	75-125	-	35
Lead, Total	180	44	150	**0**	Q	-	-	75-125	-	35
Magnesium, Total	4600	862	5000	**46**	Q	-	-	75-125	-	35
Manganese, Total	330	43.1	420	**209**	Q	-	-	75-125	-	35
Nickel, Total	11.	43.1	46	81		-	-	75-125	-	35
Potassium, Total	920	862	1900	114		-	-	75-125	-	35
Selenium, Total	ND	10.4	8.0	77		-	-	75-125	-	35
Silver, Total	ND	25.9	21	81		-	-	75-125	-	35
Sodium, Total	93.J	862	860	100		-	-	75-125	-	35
Thallium, Total	ND	10.4	7.9	76		-	-	75-125	-	35
Vanadium, Total	41.	43.1	74	76		-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07 QC Batch ID: WG669572-4 QC Sample: L1402931-01 Client ID: MS Sample										
Zinc, Total	210	43.1	190	**0**	Q	-	-	75-125	-	35
Total Metals - Westborough Lab Associated sample(s): 01-04,07 QC Batch ID: WG669764-4 QC Sample: L1402931-02 Client ID: MS Sample										
Mercury, Total	ND	0.183	0.20	109		-	-	80-120	-	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 05 QC Batch ID: WG669131-3 QC Sample: L1402995-01 Client ID: DUP Sample						
Mercury, Total	0.00128	0.00070	mg/l	**59**	Q	20
Total Metals - Westborough Lab Associated sample(s): 05 QC Batch ID: WG669192-3 QC Sample: L1402952-02 Client ID: DUP Sample						
Antimony, Total	0.00077J	0.00073J	mg/l	NC		20
Copper, Total	0.01191	0.01235	mg/l	4		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG669209-3 QC Sample: L1403011-01 Client ID: DUP Sample					
Aluminum, Total	2600	2700	mg/kg	4	35
Antimony, Total	ND	ND	mg/kg	NC	35
Arsenic, Total	4.7	4.6	mg/kg	2	35
Barium, Total	24.	24	mg/kg	0	35
Beryllium, Total	0.21J	0.22J	mg/kg	NC	35
Cadmium, Total	ND	ND	mg/kg	NC	35
Calcium, Total	1000	1100	mg/kg	10	35
Chromium, Total	7.0	7.0	mg/kg	0	35
Cobalt, Total	2.0	2.2	mg/kg	10	35
Copper, Total	11.	10	mg/kg	10	35
Iron, Total	6500	6800	mg/kg	5	35
Lead, Total	9.2	7.2	mg/kg	24	35
Magnesium, Total	1300	1500	mg/kg	14	35
Manganese, Total	71.	76	mg/kg	7	35
Nickel, Total	5.0	5.4	mg/kg	8	35
Potassium, Total	720	770	mg/kg	7	35
Selenium, Total	ND	ND	mg/kg	NC	35
Silver, Total	ND	ND	mg/kg	NC	35
Sodium, Total	140J	140J	mg/kg	NC	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG669209-3 QC Sample: L1403011-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	11.	11	mg/kg	0	35
Zinc, Total	18.	19	mg/kg	5	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07 QC Batch ID: WG669572-3 QC Sample: L1402931-01 Client ID: DUP Sample						
Aluminum, Total	8700	9100	mg/kg	4		35
Antimony, Total	ND	ND	mg/kg	NC		35
Arsenic, Total	48.	30	mg/kg	**46**	Q	35
Barium, Total	62.	64	mg/kg	3		35
Beryllium, Total	0.69	0.63	mg/kg	9		35
Cadmium, Total	0.09J	0.07J	mg/kg	NC		35
Calcium, Total	1100	1100	mg/kg	0		35
Chromium, Total	21.	20	mg/kg	5		35
Cobalt, Total	7.6	8.1	mg/kg	6		35
Copper, Total	64.	61	mg/kg	5		35
Iron, Total	16000	17000	mg/kg	6		35
Lead, Total	180	120	mg/kg	**40**	Q	35
Magnesium, Total	4600	4700	mg/kg	2		35
Manganese, Total	330	370	mg/kg	11		35
Nickel, Total	11.	12	mg/kg	9		35
Potassium, Total	920	1100	mg/kg	18		35
Selenium, Total	ND	ND	mg/kg	NC		35
Silver, Total	ND	ND	mg/kg	NC		35
Sodium, Total	93.J	96J	mg/kg	NC		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07 QC Batch ID: WG669572-3 QC Sample: L1402931-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	41.	38	mg/kg	8	35
Zinc, Total	210	210	mg/kg	0	35
Total Metals - Westborough Lab Associated sample(s): 01-04,07 QC Batch ID: WG669764-3 QC Sample: L1402931-02 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	35

INORGANICS
&
MISCELLANEOUS

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-01
Client ID: SB-5 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/06/14 08:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	02/07/14 20:24	30,2540G	RT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-02
Client ID: SB-5 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/06/14 09:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	02/07/14 20:24	30,2540G	RT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-03
Client ID: SB-2 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/06/14 11:55
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	02/07/14 20:24	30,2540G	RT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-04
Client ID: SB-1 (0-2)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/06/14 13:35
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	02/07/14 20:24	30,2540G	RT

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402939-07
Client ID: SB-3 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/06/14 09:25
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	02/07/14 20:24	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,07 QC Batch ID: WG669321-1 QC Sample: L1402931-01 Client ID: DUP Sample						
Solids, Total	89.8	90.3	%	1		20

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 02/07/2014 02:00

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402939-01A	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-01B	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-01C	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-01D	Plastic 2oz unpreserved for TS	A	N/A	2.4	Y	Absent	TS(7)
L1402939-01E	Amber 120ml unpreserved	A	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402939-01F	Amber 250ml unpreserved	A	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402939-01X	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-01Y	Vial Water preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-01Z	Vial Water preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-02A	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-02B	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-02C	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402939-02D	Plastic 2oz unpreserved for TS	A	N/A	2.4	Y	Absent	TS(7)
L1402939-02E	Amber 250ml unpreserved	A	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402939-02X	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-02Y	Vial Water preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-02Z	Vial Water preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-03A	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-03B	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-03C	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-03D	Plastic 2oz unpreserved for TS	B	N/A	2.6	Y	Absent	TS(7)
L1402939-03E	Amber 120ml unpreserved	B	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402939-03F	Amber 250ml unpreserved	B	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402939-03X	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-03Y	Vial Water preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-03Z	Vial Water preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-04A	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-04B	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402939-04C	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-04D	Plastic 2oz unpreserved for TS	B	N/A	2.6	Y	Absent	TS(7)
L1402939-04E	Amber 120ml unpreserved	B	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402939-04F	Amber 250ml unpreserved	B	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402939-04X	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-04Y	Vial Water preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-04Z	Vial Water preserved split	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1402939-05A	Vial HCl preserved	B	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1402939-05B	Vial HCl preserved	B	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1402939-05C	Vial HCl preserved	B	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1402939-05D	Plastic 500ml HNO3 preserved	A	<2	2.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1402939-05E	Amber 500ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8081(7)
L1402939-05F	Amber 500ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8081(7)
L1402939-05G	Amber 1000ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8082-1200ML(7)
L1402939-05H	Amber 1000ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8082-1200ML(7)
L1402939-05I	Amber 1000ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1402939
Report Date: 02/14/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402939-05J	Amber 1000ml unpreserved	A	7	2.4	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1402939-06A	Vial HCl preserved	B	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1402939-06B	Vial HCl preserved	B	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1402939-07A	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-07B	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-07C	5 gram Encore Sampler	B	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1402939-07D	Plastic 2oz unpreserved for TS	B	N/A	2.6	Y	Absent	TS(7)
L1402939-07E	Amber 120ml unpreserved	A	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402939-07F	Amber 250ml unpreserved	A	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1402939-07X	Vial MeOH preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1402939-07Y	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1402939-07Z	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)

Container Comments

L1402939-01F

L1402939-03F

L1402939-04F

*Values in parentheses indicate holding time in days

Project Name:	239 10TH AVE	**Lab Number:**	L1402939
Project Number:	2355.0001Y000	**Report Date:**	02/14/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE	**Lab Number:**	L1402939
Project Number:	2355.0001Y000	**Report Date:**	02/14/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE	**Lab Number:**	L1402939
Project Number:	2355.0001Y000	**Report Date:**	02/14/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

revised 2/13/14 CW

Serial_No:02141416:04

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 2/6/14

ALPHA Job #: L1402939

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Roux Associates
Address: 209 Shafter St. Islandia NY
Phone: 631-232-2600
Fax: 631-232-9898
Email: WSHEN@RouxInc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 239 10th Ave
Project Location: New York NY
Project #: 2355.0001.000
Project Manager: Wendy Shen
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 2/13/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits: (VD SAMPLES) OER

* CAT B DELIVERABLE

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	TAL METALS	TCL PEST	PCBs	Total # Bottles	Sample Specific Comments
02939-01	SB-5 (7-10)	2/6/14	0800	S	JW	X	X	X	X	X		
-02	SB-5 (30-32)	2/6/14	0900	S	JW	X	X	X				
-03	SB-2 (0-2)	2/6/14	1155	S	JW	X	X	X	X	X		
-04	SB-1 (0-2)	2/6/14	1335	S	JG	X	X	X	X	X		
-05	FIELD BLANK	2/6/14	0835	FB	JG	X	X	X	X	X		
-06	TRIP BLANK	2/6/14	—	TB	LAB	X						
-07	SB-3 (7-10)	2/6/14	09:25			X	X	X	X	X		
Container Type						E	G	G	G	G		
Preservative						A	A	A	A	A		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
	2/6/14 1430		2-6-14 1430
	2-6-14 1900		2-6-14 1900
	2-6-14 22:50		2/6/14 22:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 2/6/14

ALPHA Job #: L1402939

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Roux Associates
Address: 209 Shafter St. Islandia NY
Phone: 631-232-2600
Fax: 631-232-9898
Email: WSHEN@RouxInc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 239 10th Ave
Project Location: New York NY
Project #: 2355.0001.4000
Project Manager: Wendy Shen
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 2/13/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits: (VD SAMPLES) OER

* CAT B DELIVERABLE.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	TAL METALS	TCL PEST	PCBs	Sample Specific Comments
02939-01	SB-5 (7-10)	2/6/14	0800	S	JW	X	X	X	X	X	
-02	SB-5 (30-32)	2/6/14	0900	S	JW	X	X	X			
-03	SB-2 (0-2)	2/6/14	1155	S	JW	X	X	X	X	X	
-04	SB-1 (0-2)	2/6/14	1335	S	JG	X	X	X	X	X	
-05	FIELD BLANK	2/6/14	0835	FB	JG	X	X	X	X	X	
-06	TRIP BLANK	2/6/14	—	TB	LAB	X					
Container Type						E	G	G	G	G	
Preservative						A	A	A	A	A	

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TOTAL # BOTTLES

Relinquished By:	Date/Time	Received By:	Date/Time
	2/6/14 1430		2-6-14 1430
	2-6-14 1900		2-6-14 1900
	2-6-14 22:50		2/6/14 22:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1403115
Client:	Roux Associates, Inc. 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Wendy Shen
Phone:	(631) 232-2600
Project Name:	239 10TH AVE.
Project Number:	2355.0001Y000
Report Date:	02/17/14

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1403115-01	SB-1 (7-10)	NEW YORK, NY	02/07/14 08:30
L1403115-02	SB-1 (30-32)	NEW YORK, NY	02/07/14 09:35
L1403115-03	SB-2 (7-10)	NEW YORK, NY	02/07/14 10:25
L1403115-04	SB-2 (30-32)	NEW YORK, NY	02/07/14 11:40
L1403115-05	SB-3 (30-32)	NEW YORK, NY	02/07/14 13:55
L1403115-06	TRIP BLANK	NEW YORK, NY	02/07/14 00:00

Project Name: 239 10TH AVE. **Lab Number:** L1403115
Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	239 10TH AVE.	**Lab Number:**	L1403115
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L1403115-01 and -03 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the sample matrices.

Organochlorine Pesticides

L1403115-01 and -03 have elevated detection limits due to the dilutions required by the sample matrices. The surrogate recoveries for L1403115-01 and -03 are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene and decachlorobiphenyl (all at 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

Metals

L1403115-01 through -05 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 02/17/14

ORGANICS

VOLATILES

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-01
Client ID: SB-1 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/13/14 15:41
Analyst: BN
Percent Solids: 89%

Date Collected: 02/07/14 08:30
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	550	110	1
1,1-Dichloroethane	ND		ug/kg	83	9.8	1
Chloroform	ND		ug/kg	83	20.	1
Carbon tetrachloride	ND		ug/kg	55	12.	1
1,2-Dichloropropane	ND		ug/kg	190	12.	1
Dibromochloromethane	ND		ug/kg	55	17.	1
1,1,2-Trichloroethane	ND		ug/kg	83	17.	1
Tetrachloroethene	ND		ug/kg	55	7.7	1
Chlorobenzene	ND		ug/kg	55	19.	1
Trichlorofluoromethane	ND		ug/kg	280	6.7	1
1,2-Dichloroethane	ND		ug/kg	55	8.0	1
1,1,1-Trichloroethane	ND		ug/kg	55	6.1	1
Bromodichloromethane	ND		ug/kg	55	13.	1
trans-1,3-Dichloropropene	ND		ug/kg	55	6.6	1
cis-1,3-Dichloropropene	ND		ug/kg	55	7.0	1
1,1-Dichloropropene	ND		ug/kg	280	25.	1
Bromoform	ND		ug/kg	220	23.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	55	9.4	1
Benzene	27	J	ug/kg	55	6.5	1
Toluene	28	J	ug/kg	83	6.2	1
Ethylbenzene	ND		ug/kg	55	8.1	1
Chloromethane	ND		ug/kg	280	43.	1
Bromomethane	ND		ug/kg	110	19.	1
Vinyl chloride	ND		ug/kg	110	7.8	1
Chloroethane	ND		ug/kg	110	17.	1
1,1-Dichloroethene	ND		ug/kg	55	11.	1
trans-1,2-Dichloroethene	ND		ug/kg	83	12.	1
Trichloroethene	ND		ug/kg	55	8.4	1
1,2-Dichlorobenzene	ND		ug/kg	280	10.	1
1,3-Dichlorobenzene	ND		ug/kg	280	10.	1
1,4-Dichlorobenzene	ND		ug/kg	280	13.	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-01 Date Collected: 02/07/14 08:30

Client ID: SB-1 (7-10) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	5.7	1
p/m-Xylene	ND		ug/kg	110	18.	1
o-Xylene	ND		ug/kg	110	15.	1
cis-1,2-Dichloroethene	ND		ug/kg	55	8.2	1
Dibromomethane	ND		ug/kg	550	9.0	1
Styrene	ND		ug/kg	110	17.	1
Dichlorodifluoromethane	ND		ug/kg	550	12.	1
Acetone	ND		ug/kg	550	170	1
Carbon disulfide	ND		ug/kg	550	110	1
2-Butanone	ND		ug/kg	550	20.	1
Vinyl acetate	ND		ug/kg	550	26.	1
4-Methyl-2-pentanone	ND		ug/kg	550	13.	1
1,2,3-Trichloropropane	ND		ug/kg	550	12.	1
2-Hexanone	ND		ug/kg	550	10.	1
Bromochloromethane	ND		ug/kg	280	11.	1
2,2-Dichloropropane	ND		ug/kg	280	12.	1
1,2-Dibromoethane	ND		ug/kg	220	9.8	1
1,3-Dichloropropane	ND		ug/kg	280	9.5	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	55	18.	1
Bromobenzene	ND		ug/kg	280	11.	1
n-Butylbenzene	110		ug/kg	55	11.	1
sec-Butylbenzene	69		ug/kg	55	11.	1
tert-Butylbenzene	ND		ug/kg	280	31.	1
o-Chlorotoluene	ND		ug/kg	280	8.8	1
p-Chlorotoluene	ND		ug/kg	280	8.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	280	44.	1
Hexachlorobutadiene	ND		ug/kg	280	23.	1
Isopropylbenzene	75		ug/kg	55	9.2	1
p-Isopropyltoluene	21	J	ug/kg	55	10.	1
Naphthalene	ND		ug/kg	280	42.	1
Acrylonitrile	ND		ug/kg	550	13.	1
Tert-Butyl Alcohol	ND		ug/kg	3300	50.	1
n-Propylbenzene	270		ug/kg	55	6.9	1
1,2,3-Trichlorobenzene	15	J	ug/kg	280	9.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	280	44.	1
1,3,5-Trimethylbenzene	ND		ug/kg	280	7.9	1
1,2,4-Trimethylbenzene	ND		ug/kg	280	32.	1
1,4-Dioxane	ND		ug/kg	5500	960	1
p-Diethylbenzene	140	J	ug/kg	220	8.8	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-01 Date Collected: 02/07/14 08:30

Client ID: SB-1 (7-10) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	17	J	ug/kg	220	6.4	1
1,2,4,5-Tetramethylbenzene	470		ug/kg	220	7.2	1
Ethyl ether	ND		ug/kg	280	15.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	280	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-02
Client ID: SB-1 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/13/14 14:30
Analyst: BN
Percent Solids: 85%

Date Collected: 02/07/14 09:35
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.19	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.32	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.15	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.12	1
Bromodichloromethane	ND		ug/kg	1.0	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.48	1
Bromoform	ND		ug/kg	4.2	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.18	1
Benzene	ND		ug/kg	1.0	0.12	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.0	0.16	1
Chloromethane	ND		ug/kg	5.2	0.82	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.15	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.22	1
Trichloroethene	ND		ug/kg	1.0	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.25	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-02 Date Collected: 02/07/14 09:35

Client ID: SB-1 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.1	0.11	1
p/m-Xylene	ND		ug/kg	2.1	0.34	1
o-Xylene	ND		ug/kg	2.1	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.16	1
Dibromomethane	ND		ug/kg	10	0.17	1
Styrene	ND		ug/kg	2.1	0.32	1
Dichlorodifluoromethane	ND		ug/kg	10	0.23	1
Acetone	ND		ug/kg	10	3.3	1
Carbon disulfide	ND		ug/kg	10	2.1	1
2-Butanone	ND		ug/kg	10	0.37	1
Vinyl acetate	ND		ug/kg	10	0.50	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.24	1
2-Hexanone	ND		ug/kg	10	0.20	1
Bromochloromethane	ND		ug/kg	5.2	0.21	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.22	1
n-Butylbenzene	ND		ug/kg	1.0	0.21	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.2	0.59	1
o-Chlorotoluene	ND		ug/kg	5.2	0.17	1
p-Chlorotoluene	ND		ug/kg	5.2	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.83	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.44	1
Isopropylbenzene	ND		ug/kg	1.0	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.20	1
Naphthalene	ND		ug/kg	5.2	0.81	1
Acrylonitrile	ND		ug/kg	10	0.25	1
Tert-Butyl Alcohol	ND		ug/kg	63	0.95	1
n-Propylbenzene	ND		ug/kg	1.0	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.83	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.60	1
1,4-Dioxane	ND		ug/kg	100	18.	1
p-Diethylbenzene	ND		ug/kg	4.2	0.17	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-02 Date Collected: 02/07/14 09:35

Client ID: SB-1 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	4.2	0.12	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.14	1
Ethyl ether	ND		ug/kg	5.2	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-03
Client ID: SB-2 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/13/14 14:59
Analyst: BN
Percent Solids: 87%

Date Collected: 02/07/14 10:25
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.18	1
Chloroform	ND		ug/kg	1.5	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.32	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	1.0	0.14	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.12	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11	1
Bromodichloromethane	ND		ug/kg	1.0	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.47	1
Bromoform	ND		ug/kg	4.1	0.43	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.18	1
Benzene	0.55	J	ug/kg	1.0	0.12	1
Toluene	0.53	J	ug/kg	1.5	0.12	1
Ethylbenzene	0.28	J	ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	5.2	0.81	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.14	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.22	1
Trichloroethene	ND		ug/kg	1.0	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.25	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-03 Date Collected: 02/07/14 10:25

Client ID: SB-2 (7-10) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	1.4	J	ug/kg	2.1	0.11	1
p/m-Xylene	0.45	J	ug/kg	2.1	0.33	1
o-Xylene	ND		ug/kg	2.1	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15	1
Dibromomethane	ND		ug/kg	10	0.17	1
Styrene	ND		ug/kg	2.1	0.32	1
Dichlorodifluoromethane	ND		ug/kg	10	0.22	1
Acetone	ND		ug/kg	10	3.2	1
Carbon disulfide	ND		ug/kg	10	2.1	1
2-Butanone	ND		ug/kg	10	0.37	1
Vinyl acetate	ND		ug/kg	10	0.50	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.23	1
2-Hexanone	ND		ug/kg	10	0.19	1
Bromochloromethane	ND		ug/kg	5.2	0.20	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.18	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.22	1
n-Butylbenzene	ND		ug/kg	1.0	0.20	1
sec-Butylbenzene	0.36	J	ug/kg	1.0	0.21	1
tert-Butylbenzene	ND		ug/kg	5.2	0.58	1
o-Chlorotoluene	ND		ug/kg	5.2	0.16	1
p-Chlorotoluene	ND		ug/kg	5.2	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.82	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.44	1
Isopropylbenzene	0.94	J	ug/kg	1.0	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.20	1
Naphthalene	ND		ug/kg	5.2	0.79	1
Acrylonitrile	ND		ug/kg	10	0.24	1
Tert-Butyl Alcohol	13	J	ug/kg	62	0.94	1
n-Propylbenzene	1.8		ug/kg	1.0	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.82	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.15	1
1,2,4-Trimethylbenzene	0.80	J	ug/kg	5.2	0.59	1
1,4-Dioxane	ND		ug/kg	100	18.	1
p-Diethylbenzene	1.1	J	ug/kg	4.1	0.16	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-03 Date Collected: 02/07/14 10:25

Client ID: SB-2 (7-10) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	0.32	J	ug/kg	4.1	0.12	1
1,2,4,5-Tetramethylbenzene	4.2		ug/kg	4.1	0.13	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-04
Client ID: SB-2 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/13/14 15:27
Analyst: BN
Percent Solids: 88%

Date Collected: 02/07/14 11:40
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.8	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.16	1
Chloroform	ND		ug/kg	1.3	0.32	1
Carbon tetrachloride	ND		ug/kg	0.88	0.18	1
1,2-Dichloropropane	ND		ug/kg	3.1	0.20	1
Dibromochloromethane	ND		ug/kg	0.88	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.27	1
Tetrachloroethene	ND		ug/kg	0.88	0.12	1
Chlorobenzene	ND		ug/kg	0.88	0.30	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.11	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	0.10	1
Bromodichloromethane	ND		ug/kg	0.88	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	0.11	1
1,1-Dichloropropene	ND		ug/kg	4.4	0.40	1
Bromoform	ND		ug/kg	3.5	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	0.15	1
Benzene	ND		ug/kg	0.88	0.10	1
Toluene	ND		ug/kg	1.3	0.10	1
Ethylbenzene	ND		ug/kg	0.88	0.13	1
Chloromethane	ND		ug/kg	4.4	0.69	1
Bromomethane	ND		ug/kg	1.8	0.30	1
Vinyl chloride	ND		ug/kg	1.8	0.12	1
Chloroethane	ND		ug/kg	1.8	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.18	1
Trichloroethene	ND		ug/kg	0.88	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.4	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	4.4	0.21	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-04 Date Collected: 02/07/14 11:40

Client ID: SB-2 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.8	0.09	1
p/m-Xylene	ND		ug/kg	1.8	0.28	1
o-Xylene	ND		ug/kg	1.8	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.13	1
Dibromomethane	ND		ug/kg	8.8	0.14	1
Styrene	ND		ug/kg	1.8	0.27	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.19	1
Acetone	ND		ug/kg	8.8	2.7	1
Carbon disulfide	ND		ug/kg	8.8	1.8	1
2-Butanone	ND		ug/kg	8.8	0.31	1
Vinyl acetate	ND		ug/kg	8.8	0.42	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.8	0.20	1
2-Hexanone	ND		ug/kg	8.8	0.16	1
Bromochloromethane	ND		ug/kg	4.4	0.17	1
2,2-Dichloropropane	ND		ug/kg	4.4	0.20	1
1,2-Dibromoethane	ND		ug/kg	3.5	0.16	1
1,3-Dichloropropane	ND		ug/kg	4.4	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.88	0.28	1
Bromobenzene	ND		ug/kg	4.4	0.18	1
n-Butylbenzene	ND		ug/kg	0.88	0.17	1
sec-Butylbenzene	ND		ug/kg	0.88	0.18	1
tert-Butylbenzene	ND		ug/kg	4.4	0.49	1
o-Chlorotoluene	ND		ug/kg	4.4	0.14	1
p-Chlorotoluene	ND		ug/kg	4.4	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	0.69	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.37	1
Isopropylbenzene	ND		ug/kg	0.88	0.15	1
p-Isopropyltoluene	ND		ug/kg	0.88	0.17	1
Naphthalene	ND		ug/kg	4.4	0.68	1
Acrylonitrile	ND		ug/kg	8.8	0.21	1
Tert-Butyl Alcohol	ND		ug/kg	53	0.80	1
n-Propylbenzene	ND		ug/kg	0.88	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.4	0.15	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.4	0.69	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.4	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.4	0.50	1
1,4-Dioxane	ND		ug/kg	88	15.	1
p-Diethylbenzene	ND		ug/kg	3.5	0.14	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-04 Date Collected: 02/07/14 11:40

Client ID: SB-2 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	3.5	0.10	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.5	0.11	1
Ethyl ether	ND		ug/kg	4.4	0.23	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-05
Client ID: SB-3 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/13/14 15:55
Analyst: BN
Percent Solids: 84%

Date Collected: 02/07/14 13:55
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.19	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.33	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.49	1
Bromoform	ND		ug/kg	4.3	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.18	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.4	0.85	1
Bromomethane	ND		ug/kg	2.2	0.36	1
Vinyl chloride	ND		ug/kg	2.2	0.15	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.26	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-05 Date Collected: 02/07/14 13:55

Client ID: SB-3 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.11	1
p/m-Xylene	ND		ug/kg	2.2	0.35	1
o-Xylene	ND		ug/kg	2.2	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.33	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	ND		ug/kg	11	3.4	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.38	1
Vinyl acetate	ND		ug/kg	11	0.52	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.24	1
2-Hexanone	ND		ug/kg	11	0.20	1
Bromochloromethane	ND		ug/kg	5.4	0.21	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.21	1
sec-Butylbenzene	ND		ug/kg	1.1	0.22	1
tert-Butylbenzene	ND		ug/kg	5.4	0.61	1
o-Chlorotoluene	ND		ug/kg	5.4	0.17	1
p-Chlorotoluene	ND		ug/kg	5.4	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.85	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.46	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.4	0.83	1
Acrylonitrile	ND		ug/kg	11	0.26	1
Tert-Butyl Alcohol	ND		ug/kg	65	0.98	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.85	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.62	1
1,4-Dioxane	ND		ug/kg	110	19.	1
p-Diethylbenzene	ND		ug/kg	4.3	0.17	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-05 Date Collected: 02/07/14 13:55

Client ID: SB-3 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	4.3	0.13	1
1,2,4,5-Tetramethylbenzene	0.29	J	ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.4	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-06
Client ID: TRIP BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/10/14 15:23
Analyst: PD

Date Collected: 02/07/14 00:00
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-06 Date Collected: 02/07/14 00:00

Client ID: TRIP BLANK Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-06 Date Collected: 02/07/14 00:00

Client ID: TRIP BLANK Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 10:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG669592-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 10:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG669592-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 10:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG669592-3					
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/13/14 07:54
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-05 Batch: WG670402-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/13/14 07:54
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-05 Batch: WG670402-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/13/14 07:54
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-05 Batch: WG670402-3					
Tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	0.46	J	ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
1,4-Dioxane	ND		ug/kg	100	17.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/13/14 07:57
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG670464-3					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2
1,4-Dichlorobenzene	ND		ug/kg	250	12.

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/13/14 07:57
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG670464-3					
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	160	J	ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.
Acrylonitrile	ND		ug/kg	500	12.

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/13/14 07:57
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG670464-3					
Tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
1,4-Dioxane	ND		ug/kg	5000	870
p-Diethylbenzene	ND		ug/kg	200	8.0
p-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG669592-1 WG669592-2								
Methylene chloride	105		103		70-130	2		20
1,1-Dichloroethane	108		105		70-130	3		20
Chloroform	110		108		70-130	2		20
Carbon tetrachloride	108		104		63-132	4		20
1,2-Dichloropropane	106		103		70-130	3		20
Dibromochloromethane	100		101		63-130	1		20
1,1,2-Trichloroethane	105		108		70-130	3		20
Tetrachloroethene	103		99		70-130	4		20
Chlorobenzene	101		100		75-130	1		20
Trichlorofluoromethane	115		110		62-150	4		20
1,2-Dichloroethane	106		106		70-130	0		20
1,1,1-Trichloroethane	108		104		67-130	4		20
Bromodichloromethane	108		106		67-130	2		20
trans-1,3-Dichloropropene	107		110		70-130	3		20
cis-1,3-Dichloropropene	104		105		70-130	1		20
1,1-Dichloropropene	114		109		70-130	4		20
Bromoform	99		100		54-136	1		20
1,1,2,2-Tetrachloroethane	99		102		67-130	3		20
Benzene	108		105		70-130	3		20
Toluene	105		103		70-130	2		20
Ethylbenzene	106		104		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG669592-1 WG669592-2								
Chloromethane	103		102		64-130	1		20
Bromomethane	107		100		39-139	7		20
Vinyl chloride	101		96		55-140	5		20
Chloroethane	111		104		55-138	7		20
1,1-Dichloroethene	107		101		61-145	6		20
trans-1,2-Dichloroethene	108		106		70-130	2		20
Trichloroethene	113		109		70-130	4		20
1,2-Dichlorobenzene	101		100		70-130	1		20
1,3-Dichlorobenzene	102		99		70-130	3		20
1,4-Dichlorobenzene	101		100		70-130	1		20
Methyl tert butyl ether	104		106		63-130	2		20
p/m-Xylene	110		106		70-130	4		20
o-Xylene	109		106		70-130	3		20
cis-1,2-Dichloroethene	113		108		70-130	5		20
Dibromomethane	102		106		70-130	4		20
1,2,3-Trichloropropane	99		101		64-130	2		20
Acrylonitrile	105		113		70-130	7		20
Tert-Butyl Alcohol	117		119		70-130	2		20
Styrene	114		112		70-130	2		20
Dichlorodifluoromethane	98		93		36-147	5		20
Acetone	72		72		58-148	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG669592-1 WG669592-2								
Carbon disulfide	99		94		51-130	5		20
2-Butanone	92		96		63-138	4		20
Vinyl acetate	106		109		70-130	3		20
4-Methyl-2-pentanone	80		80		59-130	0		20
2-Hexanone	87		91		57-130	4		20
Bromochloromethane	106		105		70-130	1		20
2,2-Dichloropropane	110		105		63-133	5		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	104		104		70-130	0		20
1,1,1,2-Tetrachloroethane	106		105		64-130	1		20
Bromobenzene	96		93		70-130	3		20
n-Butylbenzene	111		107		53-136	4		20
sec-Butylbenzene	107		102		70-130	5		20
tert-Butylbenzene	103		99		70-130	4		20
o-Chlorotoluene	106		102		70-130	4		20
p-Chlorotoluene	103		99		70-130	4		20
1,2-Dibromo-3-chloropropane	106		107		41-144	1		20
Hexachlorobutadiene	103		99		63-130	4		20
Isopropylbenzene	99		95		70-130	4		20
p-Isopropyltoluene	108		103		70-130	5		20
Naphthalene	103		109		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG669592-1 WG669592-2								
n-Propylbenzene	107		102		69-130	5		20
1,2,3-Trichlorobenzene	103		105		70-130	2		20
1,2,4-Trichlorobenzene	104		105		70-130	1		20
1,3,5-Trimethylbenzene	108		104		64-130	4		20
1,2,4-Trimethylbenzene	110		108		70-130	2		20
1,4-Dioxane	140		139		56-162	1		20
p-Diethylbenzene	113		109		70-130	4		20
p-Ethyltoluene	101		96		70-130	5		20
1,2,4,5-Tetramethylbenzene	101		99		70-130	2		20
Ethyl ether	103		103		59-134	0		20
trans-1,4-Dichloro-2-butene	96		100		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	93		93		70-130
Dibromofluoromethane	105		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG670402-1 WG670402-2								
Methylene chloride	104		98		70-130	6		30
1,1-Dichloroethane	103		95		70-130	8		30
Chloroform	103		97		70-130	6		30
Carbon tetrachloride	110		101		70-130	9		30
1,2-Dichloropropane	101		95		70-130	6		30
Dibromochloromethane	99		95		70-130	4		30
2-Chloroethylvinyl ether	101		95		70-130	6		30
1,1,2-Trichloroethane	99		97		70-130	2		30
Tetrachloroethene	109		97		70-130	12		30
Chlorobenzene	103		97		70-130	6		30
Trichlorofluoromethane	119		109		70-139	9		30
1,2-Dichloroethane	100		97		70-130	3		30
1,1,1-Trichloroethane	106		96		70-130	10		30
Bromodichloromethane	102		96		70-130	6		30
trans-1,3-Dichloropropene	97		94		70-130	3		30
cis-1,3-Dichloropropene	99		94		70-130	5		30
1,1-Dichloropropene	108		98		70-130	10		30
Bromoform	94		92		70-130	2		30
1,1,2,2-Tetrachloroethane	98		98		70-130	0		30
Benzene	102		95		70-130	7		30
Toluene	102		94		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG670402-1 WG670402-2								
Ethylbenzene	103		95		70-130	8		30
Chloromethane	99		89		52-130	11		30
Bromomethane	138		124		57-147	11		30
Vinyl chloride	108		97		67-130	11		30
Chloroethane	113		104		50-151	8		30
1,1-Dichloroethene	108		97		65-135	11		30
trans-1,2-Dichloroethene	106		97		70-130	9		30
Trichloroethene	105		97		70-130	8		30
1,2-Dichlorobenzene	107		100		70-130	7		30
1,3-Dichlorobenzene	108		102		70-130	6		30
1,4-Dichlorobenzene	110		104		70-130	6		30
Methyl tert butyl ether	96		93		66-130	3		30
p/m-Xylene	105		96		70-130	9		30
o-Xylene	102		95		70-130	7		30
cis-1,2-Dichloroethene	104		97		70-130	7		30
Dibromomethane	102		99		70-130	3		30
Styrene	102		95		70-130	7		30
Dichlorodifluoromethane	114		104		30-146	9		30
Acetone	92		90		54-140	2		30
Carbon disulfide	105		94		59-130	11		30
2-Butanone	86		89		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG670402-1 WG670402-2								
Vinyl acetate	88		87		70-130	1		30
4-Methyl-2-pentanone	88		90		70-130	2		30
1,2,3-Trichloropropane	99		98		68-130	1		30
2-Hexanone	76		77		70-130	1		30
Bromochloromethane	104		99		70-130	5		30
2,2-Dichloropropane	101		92		70-130	9		30
1,2-Dibromoethane	99		97		70-130	2		30
1,3-Dichloropropane	99		97		69-130	2		30
1,1,1,2-Tetrachloroethane	100		95		70-130	5		30
Bromobenzene	104		98		70-130	6		30
n-Butylbenzene	115		105		70-130	9		30
sec-Butylbenzene	109		99		70-130	10		30
tert-Butylbenzene	106		97		70-130	9		30
o-Chlorotoluene	114		105		70-130	8		30
p-Chlorotoluene	108		100		70-130	8		30
1,2-Dibromo-3-chloropropane	97		97		68-130	0		30
Hexachlorobutadiene	103		96		67-130	7		30
Isopropylbenzene	105		96		70-130	9		30
p-Isopropyltoluene	110		100		70-130	10		30
Naphthalene	98		99		70-130	1		30
Acrylonitrile	93		96		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG670402-1 WG670402-2								
Isopropyl Ether	96		91		66-130	5		30
tert-Butyl Alcohol	82		84		70-130	2		30
n-Propylbenzene	108		98		70-130	10		30
1,2,3-Trichlorobenzene	103		100		70-130	3		30
1,2,4-Trichlorobenzene	112		107		70-130	5		30
1,3,5-Trimethylbenzene	107		98		70-130	9		30
1,2,4-Trimethylbenzene	107		99		70-130	8		30
Methyl Acetate	87		88		51-146	1		30
Ethyl Acetate	81		83		70-130	2		30
Acrolein	85		88		70-130	3		30
Cyclohexane	110		100		59-142	10		30
1,4-Dioxane	95		96		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	118		107		50-139	10		30
1,4-Diethylbenzene	114		104		70-130	9		30
4-Ethyltoluene	110		100		70-130	10		30
1,2,4,5-Tetramethylbenzene	107		100		70-130	7		30
Tetrahydrofuran	83		86		66-130	4		30
Ethyl ether	101		98		67-130	3		30
trans-1,4-Dichloro-2-butene	98		95		70-130	3		30
Methyl cyclohexane	114		102		70-130	11		30
Ethyl-Tert-Butyl-Ether	95		91		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG670402-1 WG670402-2								
Tertiary-Amyl Methyl Ether	94		90		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	101		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG670464-1 WG670464-2								
Methylene chloride	93		91		70-130	2		30
1,1-Dichloroethane	101		96		70-130	5		30
Chloroform	101		96		70-130	5		30
Carbon tetrachloride	110		103		70-130	7		30
1,2-Dichloropropane	100		96		70-130	4		30
Dibromochloromethane	95		94		70-130	1		30
2-Chloroethylvinyl ether	101		99		70-130	2		30
1,1,2-Trichloroethane	95		93		70-130	2		30
Tetrachloroethene	107		102		70-130	5		30
Chlorobenzene	100		96		70-130	4		30
Trichlorofluoromethane	119		112		70-139	6		30
1,2-Dichloroethane	96		95		70-130	1		30
1,1,1-Trichloroethane	107		101		70-130	6		30
Bromodichloromethane	101		99		70-130	2		30
trans-1,3-Dichloropropene	99		96		70-130	3		30
cis-1,3-Dichloropropene	101		98		70-130	3		30
1,1-Dichloropropene	107		101		70-130	6		30
Bromoform	91		92		70-130	1		30
1,1,2,2-Tetrachloroethane	89		87		70-130	2		30
Benzene	100		98		70-130	2		30
Toluene	101		97		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG670464-1 WG670464-2								
Ethylbenzene	102		97		70-130	5		30
Chloromethane	98		93		52-130	5		30
Bromomethane	100		94		57-147	6		30
Vinyl chloride	107		99		67-130	8		30
Chloroethane	111		104		50-151	7		30
1,1-Dichloroethene	105		99		65-135	6		30
trans-1,2-Dichloroethene	105		98		70-130	7		30
Trichloroethene	106		99		70-130	7		30
1,2-Dichlorobenzene	99		96		70-130	3		30
1,3-Dichlorobenzene	101		97		70-130	4		30
1,4-Dichlorobenzene	101		97		70-130	4		30
Methyl tert butyl ether	96		94		66-130	2		30
p/m-Xylene	103		98		70-130	5		30
o-Xylene	102		98		70-130	4		30
cis-1,2-Dichloroethene	100		98		70-130	2		30
Dibromomethane	97		93		70-130	4		30
Styrene	102		98		70-130	4		30
Dichlorodifluoromethane	110		102		30-146	8		30
Acetone	104		111		54-140	7		30
Carbon disulfide	99		94		59-130	5		30
2-Butanone	87		86		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG670464-1 WG670464-2								
Vinyl acetate	93		92		70-130	1		30
4-Methyl-2-pentanone	92		91		70-130	1		30
1,2,3-Trichloropropane	89		88		68-130	1		30
2-Hexanone	85		83		70-130	2		30
Bromochloromethane	98		96		70-130	2		30
2,2-Dichloropropane	108		101		70-130	7		30
1,2-Dibromoethane	95		92		70-130	3		30
1,3-Dichloropropane	95		93		69-130	2		30
1,1,1,2-Tetrachloroethane	100		98		70-130	2		30
Bromobenzene	99		95		70-130	4		30
n-Butylbenzene	105		100		70-130	5		30
sec-Butylbenzene	104		97		70-130	7		30
tert-Butylbenzene	101		96		70-130	5		30
o-Chlorotoluene	98		95		70-130	3		30
p-Chlorotoluene	100		95		70-130	5		30
1,2-Dibromo-3-chloropropane	88		89		68-130	1		30
Hexachlorobutadiene	109		101		67-130	8		30
Isopropylbenzene	104		99		70-130	5		30
p-Isopropyltoluene	104		98		70-130	6		30
Naphthalene	94		92		70-130	2		30
Acrylonitrile	94		93		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG670464-1 WG670464-2								
Isopropyl Ether	98		95		66-130	3		30
tert-Butyl Alcohol	88		91		70-130	3		30
n-Propylbenzene	101		96		70-130	5		30
1,2,3-Trichlorobenzene	101		98		70-130	3		30
1,2,4-Trichlorobenzene	105		101		70-130	4		30
1,3,5-Trimethylbenzene	101		96		70-130	5		30
1,2,4-Trimethylbenzene	100		96		70-130	4		30
Methyl Acetate	85		85		51-146	0		30
Ethyl Acetate	90		94		70-130	4		30
Acrolein	94		89		70-130	5		30
Cyclohexane	114		106		59-142	7		30
1,4-Dioxane	99		103		65-136	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		110		50-139	5		30
1,4-Diethylbenzene	113		107		70-130	5		30
4-Ethyltoluene	110		104		70-130	6		30
1,2,4,5-Tetramethylbenzene	111		105		70-130	6		30
Tetrahydrofuran	93		93		66-130	0		30
Ethyl ether	98		97		67-130	1		30
trans-1,4-Dichloro-2-butene	90		88		70-130	2		30
Methyl cyclohexane	114		107		70-130	6		30
Ethyl-Tert-Butyl-Ether	99		96		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG670464-1 WG670464-2								
Tertiary-Amyl Methyl Ether	101		98		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	99		100		70-130

SEMIVOLATILES

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403115-01	D	Date Collected:	02/07/14 08:30
Client ID:	SB-1 (7-10)		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	02/11/14 00:25
Analytical Date:	02/15/14 13:36			
Analyst:	PS			
Percent Solids:	89%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1500	380	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	600	10
Hexachlorobenzene	ND		ug/kg	1100	340	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	510	10
2-Chloronaphthalene	ND		ug/kg	1800	600	10
1,2-Dichlorobenzene	ND		ug/kg	1800	600	10
1,3-Dichlorobenzene	ND		ug/kg	1800	580	10
1,4-Dichlorobenzene	ND		ug/kg	1800	560	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	490	10
2,4-Dinitrotoluene	ND		ug/kg	1800	400	10
2,6-Dinitrotoluene	ND		ug/kg	1800	470	10
Fluoranthene	1300		ug/kg	1100	340	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	560	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	420	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	640	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	560	10
Hexachlorobutadiene	ND		ug/kg	1800	520	10
Hexachlorocyclopentadiene	ND		ug/kg	5200	1200	10
Hexachloroethane	ND		ug/kg	1500	330	10
Isophorone	ND		ug/kg	1600	490	10
Naphthalene	ND		ug/kg	1800	610	10
Nitrobenzene	ND		ug/kg	1600	440	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1500	380	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	550	10
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1800	480	10
Butyl benzyl phthalate	ND		ug/kg	1800	360	10
Di-n-butylphthalate	ND		ug/kg	1800	350	10
Di-n-octylphthalate	ND		ug/kg	1800	450	10
Diethyl phthalate	ND		ug/kg	1800	390	10
Dimethyl phthalate	ND		ug/kg	1800	460	10
Benzo(a)anthracene	660	J	ug/kg	1100	360	10

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-01 D Date Collected: 02/07/14 08:30

Client ID: SB-1 (7-10) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	630	J	ug/kg	1500	450	10
Benzo(b)fluoranthene	910	J	ug/kg	1100	370	10
Benzo(k)fluoranthene	ND		ug/kg	1100	350	10
Chrysene	760	J	ug/kg	1100	360	10
Acenaphthylene	ND		ug/kg	1500	340	10
Anthracene	ND		ug/kg	1100	300	10
Benzo(ghi)perylene	530	J	ug/kg	1500	380	10
Fluorene	ND		ug/kg	1800	520	10
Phenanthrene	700	J	ug/kg	1100	360	10
Dibenzo(a,h)anthracene	ND		ug/kg	1100	350	10
Indeno(1,2,3-cd)Pyrene	540	J	ug/kg	1500	410	10
Pyrene	1100		ug/kg	1100	360	10
Biphenyl	ND		ug/kg	4200	600	10
4-Chloroaniline	ND		ug/kg	1800	480	10
2-Nitroaniline	ND		ug/kg	1800	520	10
3-Nitroaniline	ND		ug/kg	1800	510	10
4-Nitroaniline	ND		ug/kg	1800	500	10
Dibenzofuran	ND		ug/kg	1800	610	10
2-Methylnaphthalene	ND		ug/kg	2200	580	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	570	10
Acetophenone	ND		ug/kg	1800	570	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	340	10
P-Chloro-M-Cresol	ND		ug/kg	1800	530	10
2-Chlorophenol	ND		ug/kg	1800	550	10
2,4-Dichlorophenol	ND		ug/kg	1600	590	10
2,4-Dimethylphenol	ND		ug/kg	1800	550	10
2-Nitrophenol	ND		ug/kg	4000	570	10
4-Nitrophenol	ND		ug/kg	2600	590	10
2,4-Dinitrophenol	ND		ug/kg	8800	2500	10
4,6-Dinitro-o-cresol	ND		ug/kg	4800	670	10
Pentachlorophenol	ND		ug/kg	1500	390	10
Phenol	ND		ug/kg	1800	540	10
2-Methylphenol	ND		ug/kg	1800	590	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2600	600	10
2,4,5-Trichlorophenol	ND		ug/kg	1800	590	10
Benzoic Acid	ND		ug/kg	5900	1800	10
Benzyl Alcohol	ND		ug/kg	1800	560	10
Carbazole	ND		ug/kg	1800	390	10

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-01 D Date Collected: 02/07/14 08:30

Client ID: SB-1 (7-10) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	89		0-136
4-Terphenyl-d14	90		18-120

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403115-02	Date Collected:	02/07/14 09:35
Client ID:	SB-1 (30-32)	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/11/14 00:25
Analytical Date:	02/14/14 05:33		
Analyst:	PS		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	110	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	ND		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	ND		ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-02 Date Collected: 02/07/14 09:35

Client ID: SB-1 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	39.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	38.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	ND		ug/kg	110	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	410	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-02 Date Collected: 02/07/14 09:35

Client ID: SB-1 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	92		0-136
4-Terphenyl-d14	78		18-120

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403115-03	D	Date Collected:	02/07/14 10:25
Client ID:	SB-2 (7-10)		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	02/11/14 00:25
Analytical Date:	02/15/14 14:01			
Analyst:	PS			
Percent Solids:	87%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1500	390	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	620	10
Hexachlorobenzene	ND		ug/kg	1100	350	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	530	10
2-Chloronaphthalene	ND		ug/kg	1900	620	10
1,2-Dichlorobenzene	ND		ug/kg	1900	620	10
1,3-Dichlorobenzene	ND		ug/kg	1900	600	10
1,4-Dichlorobenzene	ND		ug/kg	1900	580	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	500	10
2,4-Dinitrotoluene	ND		ug/kg	1900	410	10
2,6-Dinitrotoluene	ND		ug/kg	1900	490	10
Fluoranthene	810	J	ug/kg	1100	350	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	580	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	440	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2300	670	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	580	10
Hexachlorobutadiene	ND		ug/kg	1900	540	10
Hexachlorocyclopentadiene	ND		ug/kg	5400	1200	10
Hexachloroethane	ND		ug/kg	1500	340	10
Isophorone	ND		ug/kg	1700	500	10
Naphthalene	ND		ug/kg	1900	630	10
Nitrobenzene	ND		ug/kg	1700	450	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1500	400	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	570	10
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1900	500	10
Butyl benzyl phthalate	ND		ug/kg	1900	370	10
Di-n-butylphthalate	ND		ug/kg	1900	370	10
Di-n-octylphthalate	ND		ug/kg	1900	470	10
Diethyl phthalate	ND		ug/kg	1900	400	10
Dimethyl phthalate	ND		ug/kg	1900	480	10
Benzo(a)anthracene	500	J	ug/kg	1100	370	10

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-03 D Date Collected: 02/07/14 10:25

Client ID: SB-2 (7-10) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	500	J	ug/kg	1500	460	10
Benzo(b)fluoranthene	640	J	ug/kg	1100	380	10
Benzo(k)fluoranthene	ND		ug/kg	1100	360	10
Chrysene	570	J	ug/kg	1100	370	10
Acenaphthylene	ND		ug/kg	1500	360	10
Anthracene	ND		ug/kg	1100	320	10
Benzo(ghi)perylene	460	J	ug/kg	1500	400	10
Fluorene	ND		ug/kg	1900	540	10
Phenanthrene	460	J	ug/kg	1100	370	10
Dibenzo(a,h)anthracene	ND		ug/kg	1100	370	10
Indeno(1,2,3-cd)Pyrene	460	J	ug/kg	1500	420	10
Pyrene	760	J	ug/kg	1100	370	10
Biphenyl	ND		ug/kg	4300	630	10
4-Chloroaniline	ND		ug/kg	1900	500	10
2-Nitroaniline	ND		ug/kg	1900	540	10
3-Nitroaniline	ND		ug/kg	1900	520	10
4-Nitroaniline	ND		ug/kg	1900	510	10
Dibenzofuran	ND		ug/kg	1900	630	10
2-Methylnaphthalene	ND		ug/kg	2300	610	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	590	10
Acetophenone	ND		ug/kg	1900	590	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	360	10
P-Chloro-M-Cresol	ND		ug/kg	1900	550	10
2-Chlorophenol	ND		ug/kg	1900	570	10
2,4-Dichlorophenol	ND		ug/kg	1700	620	10
2,4-Dimethylphenol	ND		ug/kg	1900	570	10
2-Nitrophenol	ND		ug/kg	4100	590	10
4-Nitrophenol	ND		ug/kg	2700	620	10
2,4-Dinitrophenol	ND		ug/kg	9100	2600	10
4,6-Dinitro-o-cresol	ND		ug/kg	4900	700	10
Pentachlorophenol	ND		ug/kg	1500	410	10
Phenol	ND		ug/kg	1900	560	10
2-Methylphenol	ND		ug/kg	1900	610	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2700	620	10
2,4,5-Trichlorophenol	ND		ug/kg	1900	620	10
Benzoic Acid	ND		ug/kg	6200	1900	10
Benzyl Alcohol	ND		ug/kg	1900	580	10
Carbazole	ND		ug/kg	1900	410	10

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-03 D Date Collected: 02/07/14 10:25

Client ID: SB-2 (7-10) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	83		0-136
4-Terphenyl-d14	77		18-120

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403115-04	Date Collected:	02/07/14 11:40
Client ID:	SB-2 (30-32)	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/11/14 07:56
Analytical Date:	02/15/14 21:28		
Analyst:	HL		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	61.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	40.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-04 Date Collected: 02/07/14 11:40

Client ID: SB-2 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	49.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	50.	1
Dibenzofuran	ND		ug/kg	190	62.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	55.	1
2-Methylphenol	ND		ug/kg	190	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-04 Date Collected: 02/07/14 11:40

Client ID: SB-2 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	78		0-136
4-Terphenyl-d14	70		18-120

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403115-05	Date Collected:	02/07/14 13:55
Client ID:	SB-3 (30-32)	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/11/14 07:56
Analytical Date:	02/15/14 21:54		
Analyst:	HL		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	64.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	55.	1
2-Chloronaphthalene	ND		ug/kg	200	64.	1
1,2-Dichlorobenzene	ND		ug/kg	200	64.	1
1,3-Dichlorobenzene	ND		ug/kg	200	62.	1
1,4-Dichlorobenzene	ND		ug/kg	200	59.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	42.	1
2,6-Dinitrotoluene	ND		ug/kg	200	50.	1
Fluoranthene	ND		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	45.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	69.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	59.	1
Hexachlorobutadiene	ND		ug/kg	200	55.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	120	1
Hexachloroethane	ND		ug/kg	160	35.	1
Isophorone	ND		ug/kg	180	52.	1
Naphthalene	ND		ug/kg	200	65.	1
Nitrobenzene	ND		ug/kg	180	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	41.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	58.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	51.	1
Butyl benzyl phthalate	ND		ug/kg	200	38.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	48.	1
Diethyl phthalate	ND		ug/kg	200	41.	1
Dimethyl phthalate	ND		ug/kg	200	50.	1
Benzo(a)anthracene	ND		ug/kg	120	38.	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-05 Date Collected: 02/07/14 13:55

Client ID: SB-3 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	39.	1
Benzo(k)fluoranthene	ND		ug/kg	120	37.	1
Chrysene	ND		ug/kg	120	38.	1
Acenaphthylene	ND		ug/kg	160	36.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	ND		ug/kg	160	41.	1
Fluorene	ND		ug/kg	200	56.	1
Phenanthrene	ND		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	43.	1
Pyrene	ND		ug/kg	120	38.	1
Biphenyl	ND		ug/kg	440	64.	1
4-Chloroaniline	ND		ug/kg	200	52.	1
2-Nitroaniline	ND		ug/kg	200	55.	1
3-Nitroaniline	ND		ug/kg	200	54.	1
4-Nitroaniline	ND		ug/kg	200	53.	1
Dibenzofuran	ND		ug/kg	200	65.	1
2-Methylnaphthalene	ND		ug/kg	230	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	60.	1
Acetophenone	ND		ug/kg	200	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
P-Chloro-M-Cresol	ND		ug/kg	200	57.	1
2-Chlorophenol	ND		ug/kg	200	59.	1
2,4-Dichlorophenol	ND		ug/kg	180	63.	1
2,4-Dimethylphenol	ND		ug/kg	200	58.	1
2-Nitrophenol	ND		ug/kg	420	61.	1
4-Nitrophenol	ND		ug/kg	270	63.	1
2,4-Dinitrophenol	ND		ug/kg	940	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	71.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	200	58.	1
2-Methylphenol	ND		ug/kg	200	63.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	64.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	63.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	42.	1

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-05 Date Collected: 02/07/14 13:55

Client ID: SB-3 (30-32) Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	69		0-136
4-Terphenyl-d14	67		18-120

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/12/14 11:49
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/11/14 00:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG669669-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	98	32.

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/12/14 11:49
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/11/14 00:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG669669-1					
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	51.
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	60.
Pentachlorophenol	ND		ug/kg	130	35.

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/12/14 11:49
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/11/14 00:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG669669-1					
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	93		0-136
4-Terphenyl-d14	91		18-120

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 18:33
Analyst: HL

Extraction Method: EPA 3546
Extraction Date: 02/11/14 07:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG669715-1					
Acenaphthene	ND		ug/kg	130	34.
Benzidine	ND		ug/kg	550	130
n-Nitrosodimethylamine	ND		ug/kg	330	54.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	100	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	100	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Azobenzene	ND		ug/kg	160	44.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	480	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 18:33
Analyst: HL

Extraction Method: EPA 3546
Extraction Date: 02/11/14 07:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG669715-1					
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	100	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	34.
Benzo(k)fluoranthene	ND		ug/kg	100	32.
Chrysene	ND		ug/kg	100	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	100	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	48.
Phenanthrene	ND		ug/kg	100	32.
Dibenzo(a,h)anthracene	ND		ug/kg	100	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	100	32.
Biphenyl	ND		ug/kg	380	55.
Aniline	ND		ug/kg	200	34.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 18:33
Analyst: HL

Extraction Method: EPA 3546
Extraction Date: 02/11/14 07:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG669715-1					
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	800	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	61.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.
Benzaldehyde	ND		ug/kg	220	67.
Caprolactam	ND		ug/kg	160	46.
Atrazine	ND		ug/kg	130	38.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.
Pyridine	ND		ug/kg	660	59.
Parathion, ethyl	ND		ug/kg	160	66.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	79		0-136
4-Terphenyl-d14	79		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG669669-2 WG669669-3								
Acenaphthene	76		78		31-137	3		50
1,2,4-Trichlorobenzene	73		72		38-107	1		50
Hexachlorobenzene	79		83		40-140	5		50
Bis(2-chloroethyl)ether	66		67		40-140	2		50
2-Chloronaphthalene	78		80		40-140	3		50
1,2-Dichlorobenzene	69		70		40-140	1		50
1,3-Dichlorobenzene	68		70		40-140	3		50
1,4-Dichlorobenzene	70		69		28-104	1		50
3,3'-Dichlorobenzidine	54		67		40-140	21		50
2,4-Dinitrotoluene	82		85		28-89	4		50
2,6-Dinitrotoluene	71		76		40-140	7		50
Fluoranthene	81		84		40-140	4		50
4-Chlorophenyl phenyl ether	77		80		40-140	4		50
4-Bromophenyl phenyl ether	80		80		40-140	0		50
Bis(2-chloroisopropyl)ether	61		60		40-140	2		50
Bis(2-chloroethoxy)methane	68		69		40-117	1		50
Hexachlorobutadiene	72		70		40-140	3		50
Hexachlorocyclopentadiene	73		76		40-140	4		50
Hexachloroethane	65		65		40-140	0		50
Isophorone	68		69		40-140	1		50
Naphthalene	75		75		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG669669-2 WG669669-3								
Nitrobenzene	71		71		40-140	0		50
NitrosoDiPhenylAmine(NDPA)/DPA	80		83			4		50
n-Nitrosodi-n-propylamine	66		66		32-121	0		50
Bis(2-Ethylhexyl)phthalate	78		82		40-140	5		50
Butyl benzyl phthalate	77		81		40-140	5		50
Di-n-butylphthalate	81		84		40-140	4		50
Di-n-octylphthalate	85		87		40-140	2		50
Diethyl phthalate	77		80		40-140	4		50
Dimethyl phthalate	76		79		40-140	4		50
Benzo(a)anthracene	79		82		40-140	4		50
Benzo(a)pyrene	80		83		40-140	4		50
Benzo(b)fluoranthene	77		73		40-140	5		50
Benzo(k)fluoranthene	77		87		40-140	12		50
Chrysene	79		81		40-140	3		50
Acenaphthylene	75		78		40-140	4		50
Anthracene	82		84		40-140	2		50
Benzo(ghi)perylene	82		86		40-140	5		50
Fluorene	78		79		40-140	1		50
Phenanthrene	79		81		40-140	3		50
Dibenzo(a,h)anthracene	82		88		40-140	7		50
Indeno(1,2,3-cd)Pyrene	82		87		40-140	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG669669-2 WG669669-3								
Pyrene	78		81		35-142	4		50
Biphenyl	85		85			0		50
4-Chloroaniline	63		60		40-140	5		50
2-Nitroaniline	78		84		47-134	7		50
3-Nitroaniline	38		53		26-129	33		50
4-Nitroaniline	70		75		41-125	7		50
Dibenzofuran	78		81		40-140	4		50
2-Methylnaphthalene	77		79		40-140	3		50
1,2,4,5-Tetrachlorobenzene	82		81		40-117	1		50
Acetophenone	74		72		14-144	3		50
2,4,6-Trichlorophenol	79		83		30-130	5		50
P-Chloro-M-Cresol	77		81		26-103	5		50
2-Chlorophenol	75		73		25-102	3		50
2,4-Dichlorophenol	80		83		30-130	4		50
2,4-Dimethylphenol	75		76		30-130	1		50
2-Nitrophenol	78		76		30-130	3		50
4-Nitrophenol	64		66		11-114	3		50
2,4-Dinitrophenol	67		55		4-130	20		50
4,6-Dinitro-o-cresol	78		76		10-130	3		50
Pentachlorophenol	80		83		17-109	4		50
Phenol	76		75		26-90	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG669669-2 WG669669-3								
2-Methylphenol	74		74		30-130.	0		50
3-Methylphenol/4-Methylphenol	79		82		30-130	4		50
2,4,5-Trichlorophenol	80		86		30-130	7		50
Benzoic Acid	31		28			10		50
Benzyl Alcohol	72		73		40-140	1		50
Carbazole	82		86		54-128	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		75		25-120
Phenol-d6	78		75		10-120
Nitrobenzene-d5	70		69		23-120
2-Fluorobiphenyl	78		78		30-120
2,4,6-Tribromophenol	89		91		0-136
4-Terphenyl-d14	85		84		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG669715-2 WG669715-3								
Acenaphthene	86		72		31-137	18		50
Benzidine	17		20			16		50
n-Nitrosodimethylamine	75		60			22		50
1,2,4-Trichlorobenzene	82		68		38-107	19		50
Hexachlorobenzene	89		74		40-140	18		50
Bis(2-chloroethyl)ether	80		65		40-140	21		50
2-Chloronaphthalene	89		75		40-140	17		50
1,2-Dichlorobenzene	82		67		40-140	20		50
1,3-Dichlorobenzene	81		65		40-140	22		50
1,4-Dichlorobenzene	82		65		28-104	23		50
3,3'-Dichlorobenzidine	52		56		40-140	7		50
2,4-Dinitrotoluene	**92**	Q	78		28-89	16		50
2,6-Dinitrotoluene	84		72		40-140	15		50
Fluoranthene	88		76		40-140	15		50
4-Chlorophenyl phenyl ether	88		75		40-140	16		50
4-Bromophenyl phenyl ether	88		75		40-140	16		50
Azobenzene	82		71		40-140	14		50
Bis(2-chloroisopropyl)ether	74		60		40-140	21		50
Bis(2-chloroethoxy)methane	84		68		40-117	21		50
Hexachlorobutadiene	81		68		40-140	17		50
Hexachlorocyclopentadiene	89		74		40-140	18		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG669715-2 WG669715-3								
Hexachloroethane	75		62		40-140	19		50
Isophorone	83		69		40-140	18		50
Naphthalene	85		70		40-140	19		50
Nitrobenzene	82		68		40-140	19		50
NitrosoDiPhenylAmine(NDPA)/DPA	91		78			15		50
n-Nitrosodi-n-propylamine	80		67		32-121	18		50
Bis(2-Ethylhexyl)phthalate	92		80		40-140	14		50
Butyl benzyl phthalate	88		75		40-140	16		50
Di-n-butylphthalate	92		80		40-140	14		50
Di-n-octylphthalate	96		84		40-140	13		50
Diethyl phthalate	87		74		40-140	16		50
Dimethyl phthalate	87		74		40-140	16		50
Benzo(a)anthracene	90		76		40-140	17		50
Benzo(a)pyrene	90		73		40-140	21		50
Benzo(b)fluoranthene	82		70		40-140	16		50
Benzo(k)fluoranthene	91		71		40-140	25		50
Chrysene	87		74		40-140	16		50
Acenaphthylene	88		74		40-140	17		50
Anthracene	91		79		40-140	14		50
Benzo(ghi)perylene	86		68		40-140	23		50
Fluorene	86		74		40-140	15		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG669715-2 WG669715-3								
Phenanthrene	87		75		40-140	15		50
Dibenzo(a,h)anthracene	88		70		40-140	23		50
Indeno(1,2,3-cd)Pyrene	87		67		40-140	26		50
Pyrene	87		74		35-142	16		50
Biphenyl	95		80			17		50
Aniline	49		53		40-140	8		50
4-Chloroaniline	86		62		40-140	32		50
2-Nitroaniline	93		79		47-134	16		50
3-Nitroaniline	32		39		26-129	20		50
4-Nitroaniline	82		72		41-125	13		50
Dibenzofuran	89		75		40-140	17		50
2-Methylnaphthalene	90		75		40-140	18		50
1,2,4,5-Tetrachlorobenzene	91		76		40-117	18		50
Acetophenone	90		73		14-144	21		50
2,4,6-Trichlorophenol	96		81		30-130	17		50
P-Chloro-M-Cresol	91		78		26-103	15		50
2-Chlorophenol	89		72		25-102	21		50
2,4-Dichlorophenol	92		78		30-130	16		50
2,4-Dimethylphenol	95		76		30-130	22		50
2-Nitrophenol	92		77		30-130	18		50
4-Nitrophenol	87		76		11-114	13		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG669715-2 WG669715-3								
2,4-Dinitrophenol	80		68		4-130	16		50
4,6-Dinitro-o-cresol	88		74		10-130	17		50
Pentachlorophenol	94		77		17-109	20		50
Phenol	**91**	Q	73		26-90	22		50
2-Methylphenol	89		73		30-130.	20		50
3-Methylphenol/4-Methylphenol	96		81		30-130	17		50
2,4,5-Trichlorophenol	97		82		30-130	17		50
Benzoic Acid	62		54			14		50
Benzyl Alcohol	90		72		40-140	22		50
Carbazole	92		79		54-128	15		50
Benzaldehyde	92		73			23		50
Caprolactam	89		78			13		50
Atrazine	103		88			16		50
2,3,4,6-Tetrachlorophenol	91		79			14		50
Pyridine	66		52		10-93	24		50
Parathion, ethyl	113		93		40-140	19		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG669715-2 WG669715-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		71		25-120
Phenol-d6	90		74		10-120
Nitrobenzene-d5	83		65		23-120
2-Fluorobiphenyl	85		72		30-120
2,4,6-Tribromophenol	94		83		0-136
4-Terphenyl-d14	87		74		18-120

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG669669-4 WG669669-5 QC Sample: L1403105-18 Client ID: MS Sample												
Acenaphthene	ND	1640	1200	73		1200	74		31-137	0		50
1,2,4-Trichlorobenzene	ND	1640	1200	73		1200	74		38-107	0		50
Hexachlorobenzene	ND	1640	1300	79		1300	80		40-140	0		50
Bis(2-chloroethyl)ether	ND	1640	1200	73		1000	62		40-140	18		50
2-Chloronaphthalene	ND	1640	1300	79		1300	80		40-140	0		50
1,2-Dichlorobenzene	ND	1640	1200	73		1100	68		40-140	9		50
1,3-Dichlorobenzene	ND	1640	1200	73		1100	68		40-140	9		50
1,4-Dichlorobenzene	ND	1640	1200	73		1100	68		28-104	9		50
3,3'-Dichlorobenzidine	ND	1640	780	48		730	45		40-140	7		50
2,4-Dinitrotoluene	ND	1640	1300	79		1300	80		28-89	0		50
2,6-Dinitrotoluene	ND	1640	1200	73		1100	68		40-140	9		50
Fluoranthene	ND	1640	1300	79		1300	80		40-140	0		50
4-Chlorophenyl phenyl ether	ND	1640	1300	79		1200	74		40-140	8		50
4-Bromophenyl phenyl ether	ND	1640	1300	79		1300	80		40-140	0		50
Bis(2-chloroisopropyl)ether	ND	1640	1000	61		960	59		40-140	4		50
Bis(2-chloroethoxy)methane	ND	1640	1200	73		1100	68		40-117	9		50
Hexachlorobutadiene	ND	1640	1200	73		1200	74		40-140	0		50
Hexachlorocyclopentadiene	ND	1640	1100	67		1100	68		40-140	0		50
Hexachloroethane	ND	1640	1100	67		1000	62		40-140	10		50
Isophorone	ND	1640	1200	73		1100	68		40-140	9		50
Naphthalene	ND	1640	1300	79		1200	74		40-140	8		50

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG669669-4 WG669669-5 QC Sample: L1403105-18 Client ID: MS Sample												
Nitrobenzene	ND	1640	1200	73		1100	68		40-140	9		50
NitrosoDiPhenylAmine(NDPA)/DPA	ND	1640	1300	79		1300	80			0		50
n-Nitrosodi-n-propylamine	ND	1640	1100	67		1000	62		32-121	10		50
Bis(2-Ethylhexyl)phthalate	ND	1640	1300	79		1300	80		40-140	0		50
Butyl benzyl phthalate	ND	1640	1200	73		1200	74		40-140	0		50
Di-n-butylphthalate	ND	1640	1300	79		1300	80		40-140	0		50
Di-n-octylphthalate	ND	1640	1400	85		1400	86		40-140	0		50
Diethyl phthalate	ND	1640	1300	79		1300	80		40-140	0		50
Dimethyl phthalate	ND	1640	1300	79		1200	74		40-140	8		50
Benzo(a)anthracene	ND	1640	1200	73		1300	80		40-140	8		50
Benzo(a)pyrene	ND	1640	1300	79		1300	80		40-140	0		50
Benzo(b)fluoranthene	ND	1640	1100	67		1100	68		40-140	0		50
Benzo(k)fluoranthene	ND	1640	1300	79		1300	80		40-140	0		50
Chrysene	ND	1640	1200	73		1200	74		40-140	0		50
Acenaphthylene	ND	1640	1200	73		1200	74		40-140	0		50
Anthracene	ND	1640	1300	79		1300	80		40-140	0		50
Benzo(ghi)perylene	ND	1640	1300	79		1200	74		40-140	8		50
Fluorene	ND	1640	1200	73		1200	74		40-140	0		50
Phenanthrene	ND	1640	1200	73		1200	74		40-140	0		50
Dibenzo(a,h)anthracene	ND	1640	1300	79		1300	80		40-140	0		50
Indeno(1,2,3-cd)Pyrene	ND	1640	1200	73		1200	74		40-140	0		50

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG669669-4 WG669669-5 QC Sample: L1403105-18 Client ID: MS Sample												
Pyrene	ND	1640	1200	73		1200	74		35-142	0		50
Biphenyl	ND	1640	1400	85		1400	86			0		50
4-Chloroaniline	ND	1640	1200	73		1200	74		40-140	0		50
2-Nitroaniline	ND	1640	1400	85		1400	86		47-134	0		50
3-Nitroaniline	ND	1640	500	30		400	**25**	Q	26-129	22		50
4-Nitroaniline	ND	1640	1400	85		1300	80		41-125	7		50
Dibenzofuran	ND	1640	1300	79		1300	80		40-140	0		50
2-Methylnaphthalene	ND	1640	1300	79		1200	74		40-140	8		50
1,2,4,5-Tetrachlorobenzene	ND	1640	1400	85		1300	80		40-117	7		50
Acetophenone	ND	1640	1300	79		1200	74		14-144	8		50
2,4,6-Trichlorophenol	ND	1640	1300	79		1300	80		30-130	0		50
P-Chloro-M-Cresol	ND	1640	1300	79		1300	80		26-103	0		50
2-Chlorophenol	ND	1640	1200	73		1200	74		25-102	0		50
2,4-Dichlorophenol	ND	1640	1400	85		1300	80		30-130	7		50
2,4-Dimethylphenol	ND	1640	1300	79		1200	74		30-130	8		50
2-Nitrophenol	ND	1640	1300	79		1200	74		30-130	8		50
4-Nitrophenol	ND	1640	910	55		980	60		11-114	7		50
2,4-Dinitrophenol	ND	1640	330J	20		ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1640	940	57		840	52		10-130	11		50
Pentachlorophenol	ND	1640	1200	73		1200	74		17-109	0		50
Phenol	ND	1640	1200	73		1200	74		26-90	0		50

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG669669-4 WG669669-5 QC Sample: L1403105-18 Client ID: MS Sample												
2-Methylphenol	ND	1640	1300	79		1200	74		30-130.	8		50
3-Methylphenol/4-Methylphenol	ND	1640	1300	79		1300	80		30-130	0		50
2,4,5-Trichlorophenol	ND	1640	1300	79		1300	80		30-130	0		50
Benzoic Acid	ND	1640	ND	0	Q	ND	0	Q		NC		50
Benzyl Alcohol	ND	1640	1200	73		1100	68		40-140	9		50
Carbazole	ND	1640	1300	79		1300	80		54-128	0		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	91		89		0-136
2-Fluorobiphenyl	79		77		30-120
2-Fluorophenol	79		73		25-120
4-Terphenyl-d14	79		80		18-120
Nitrobenzene-d5	73		68		23-120
Phenol-d6	78		73		10-120

PCBS

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403115-01	Date Collected:	02/07/14 08:30
Client ID:	SB-1 (7-10)	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/13/14 07:19
Analytical Date:	02/13/14 13:03	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/13/14
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/13/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	2.82	1	A
Aroclor 1221	ND		ug/kg	35.7	3.29	1	A
Aroclor 1232	ND		ug/kg	35.7	4.18	1	A
Aroclor 1242	ND		ug/kg	35.7	4.37	1	A
Aroclor 1248	ND		ug/kg	35.7	3.01	1	A
Aroclor 1254	ND		ug/kg	35.7	2.93	1	A
Aroclor 1260	10.4	J	ug/kg	35.7	2.72	1	B
Aroclor 1262	ND		ug/kg	35.7	1.77	1	A
Aroclor 1268	ND		ug/kg	35.7	5.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403115-03	Date Collected:	02/07/14 10:25
Client ID:	SB-2 (7-10)	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/12/14 19:19
Analytical Date:	02/13/14 09:09	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/13/14
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/13/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	2.92	1	A
Aroclor 1221	ND		ug/kg	37.0	3.41	1	A
Aroclor 1232	ND		ug/kg	37.0	4.33	1	A
Aroclor 1242	ND		ug/kg	37.0	4.52	1	A
Aroclor 1248	ND		ug/kg	37.0	3.12	1	A
Aroclor 1254	ND		ug/kg	37.0	3.04	1	A
Aroclor 1260	9.04	J	ug/kg	37.0	2.82	1	B
Aroclor 1262	ND		ug/kg	37.0	1.83	1	A
Aroclor 1268	ND		ug/kg	37.0	5.36	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/13/14 09:49
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 02/12/14 19:19
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/13/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/13/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG670110-1						
Aroclor 1016	ND		ug/kg	32.8	2.59	A
Aroclor 1221	ND		ug/kg	32.8	3.02	A
Aroclor 1232	ND		ug/kg	32.8	3.84	A
Aroclor 1242	ND		ug/kg	32.8	4.01	A
Aroclor 1248	ND		ug/kg	32.8	2.76	A
Aroclor 1254	ND		ug/kg	32.8	2.69	A
Aroclor 1260	ND		ug/kg	32.8	2.50	A
Aroclor 1262	ND		ug/kg	32.8	1.62	A
Aroclor 1268	ND		ug/kg	32.8	4.75	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	133		30-150	B

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/13/14 13:16
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 02/13/14 07:19
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/13/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/13/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG670189-1						
Aroclor 1016	ND		ug/kg	32.5	2.57	A
Aroclor 1221	ND		ug/kg	32.5	3.00	A
Aroclor 1232	ND		ug/kg	32.5	3.81	A
Aroclor 1242	ND		ug/kg	32.5	3.98	A
Aroclor 1248	ND		ug/kg	32.5	2.74	A
Aroclor 1254	ND		ug/kg	32.5	2.67	A
Aroclor 1260	ND		ug/kg	32.5	2.48	A
Aroclor 1262	ND		ug/kg	32.5	1.61	A
Aroclor 1268	ND		ug/kg	32.5	4.71	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	109		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG670110-2 WG670110-3									
Aroclor 1016	93		49		40-140	**62**	Q	50	A
Aroclor 1260	90		48		40-140	**61**	Q	50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	116		66		30-150	A
Decachlorobiphenyl	112		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	110		61		30-150	B
Decachlorobiphenyl	130		64		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG670189-2 WG670189-3									
Aroclor 1016	86		83		40-140	4		50	A
Aroclor 1260	83		79		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		76		30-150	A
Decachlorobiphenyl	99		91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		83		30-150	B
Decachlorobiphenyl	102		91		30-150	B

PESTICIDES

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403115-01	D	Date Collected:	02/07/14 08:30
Client ID:	SB-1 (7-10)		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8081B		Extraction Date:	02/12/14 00:39
Analytical Date:	02/13/14 20:32		Cleanup Method1:	EPA 3620B
Analyst:	SS		Cleanup Date1:	02/12/14
Percent Solids:	89%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	34.9	6.83	20	A
Lindane	ND		ug/kg	14.5	6.50	20	A
Alpha-BHC	ND		ug/kg	14.5	4.13	20	A
Beta-BHC	ND		ug/kg	34.9	13.2	20	A
Heptachlor	ND		ug/kg	17.4	7.82	20	A
Aldrin	ND		ug/kg	34.9	12.3	20	A
Heptachlor epoxide	ND		ug/kg	65.4	19.6	20	A
Endrin	ND		ug/kg	14.5	5.96	20	A
Endrin ketone	ND		ug/kg	34.9	8.98	20	A
Dieldrin	ND		ug/kg	21.8	10.9	20	A
4,4'-DDE	ND		ug/kg	34.9	8.07	20	A
4,4'-DDD	ND		ug/kg	34.9	12.4	20	A
4,4'-DDT	ND		ug/kg	65.4	28.0	20	A
Endosulfan I	ND		ug/kg	34.9	8.24	20	A
Endosulfan II	ND		ug/kg	34.9	11.6	20	A
Endosulfan sulfate	ND		ug/kg	14.5	6.92	20	A
Methoxychlor	ND		ug/kg	65.4	20.3	20	A
Toxaphene	ND		ug/kg	654	183.	20	A
cis-Chlordane	ND		ug/kg	43.6	12.2	20	A
trans-Chlordane	13.0	JPI	ug/kg	43.6	11.5	20	A
Chlordane	ND		ug/kg	283	116.	20	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403115-03	D	Date Collected:	02/07/14 10:25
Client ID:	SB-2 (7-10)		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8081B		Extraction Date:	02/12/14 00:39
Analytical Date:	02/13/14 20:45		Cleanup Method1:	EPA 3620B
Analyst:	SS		Cleanup Date1:	02/12/14
Percent Solids:	87%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	35.8	7.02	20	A
Lindane	ND		ug/kg	14.9	6.68	20	A
Alpha-BHC	ND		ug/kg	14.9	4.24	20	A
Beta-BHC	ND		ug/kg	35.8	13.6	20	A
Heptachlor	ND		ug/kg	17.9	8.04	20	A
Aldrin	ND		ug/kg	35.8	12.6	20	A
Heptachlor epoxide	ND		ug/kg	67.2	20.2	20	A
Endrin	ND		ug/kg	14.9	6.12	20	A
Endrin ketone	ND		ug/kg	35.8	9.23	20	A
Dieldrin	ND		ug/kg	22.4	11.2	20	A
4,4'-DDE	10.3	J	ug/kg	35.8	8.29	20	A
4,4'-DDD	ND		ug/kg	35.8	12.8	20	A
4,4'-DDT	ND		ug/kg	67.2	28.8	20	A
Endosulfan I	ND		ug/kg	35.8	8.47	20	A
Endosulfan II	ND		ug/kg	35.8	12.0	20	A
Endosulfan sulfate	ND		ug/kg	14.9	7.11	20	A
Methoxychlor	ND		ug/kg	67.2	20.9	20	A
Toxaphene	ND		ug/kg	672	188.	20	A
cis-Chlordane	29.5	J	ug/kg	44.8	12.5	20	A
trans-Chlordane	27.5	JPI	ug/kg	44.8	11.8	20	A
Chlordane	233	J	ug/kg	291	119.	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/13/14 17:40
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 02/12/14 00:39
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03 Batch: WG669926-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.656	0.293	A
Alpha-BHC	ND		ug/kg	0.656	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.597	A
Heptachlor	ND		ug/kg	0.787	0.353	A
Aldrin	ND		ug/kg	1.57	0.554	A
Heptachlor epoxide	ND		ug/kg	2.95	0.885	A
Endrin	ND		ug/kg	0.656	0.269	A
Endrin ketone	ND		ug/kg	1.57	0.405	A
Dieldrin	ND		ug/kg	0.984	0.492	A
4,4'-DDE	ND		ug/kg	1.57	0.364	A
4,4'-DDD	ND		ug/kg	1.57	0.561	A
4,4'-DDT	ND		ug/kg	2.95	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.372	A
Endosulfan II	ND		ug/kg	1.57	0.526	A
Endosulfan sulfate	ND		ug/kg	0.656	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.918	A
Toxaphene	ND		ug/kg	29.5	8.26	A
cis-Chlordane	ND		ug/kg	1.97	0.548	A
trans-Chlordane	ND		ug/kg	1.97	0.519	A
Chlordane	ND		ug/kg	12.8	5.21	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG669926-2 WG669926-3									
Delta-BHC	81		98		30-150	19		30	A
Lindane	82		99		30-150	19		30	A
Alpha-BHC	88		106		30-150	19		30	A
Beta-BHC	75		91		30-150	19		30	A
Heptachlor	81		97		30-150	18		30	A
Aldrin	97		115		30-150	17		30	A
Heptachlor epoxide	88		106		30-150	19		30	A
Endrin	98		119		30-150	19		30	A
Endrin ketone	67		86		30-150	25		30	A
Dieldrin	93		114		30-150	20		30	A
4,4'-DDE	102		121		30-150	17		30	A
4,4'-DDD	88		105		30-150	18		30	A
4,4'-DDT	89		105		30-150	16		30	A
Endosulfan I	90		110		30-150	20		30	A
Endosulfan II	83		104		30-150	22		30	A
Endosulfan sulfate	72		91		30-150	23		30	A
Methoxychlor	75		94		30-150	22		30	A
cis-Chlordane	92		110		30-150	18		30	A
trans-Chlordane	91		109		30-150	18		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG669926-2 WG669926-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		79		30-150	A
Decachlorobiphenyl	86		98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		70		30-150	B
Decachlorobiphenyl	83		94		30-150	B

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG669926-4 WG669926-5 QC Sample: L1403105-18 Client ID: MS Sample													
Delta-BHC	ND	40.7	41.8	103		31.6	79		30-150	28		50	A
Lindane	ND	40.7	41.5	102		31.4	79		30-150	28		50	A
Alpha-BHC	ND	40.7	44.3	109		31.9	80		30-150	33		50	A
Beta-BHC	ND	40.7	38.5	95		29.1	73		30-150	28		50	A
Heptachlor	ND	40.7	40.1	99		30.8	77		30-150	26		50	A
Aldrin	ND	40.7	47.4	117		35.9	90		30-150	28		50	A
Heptachlor epoxide	ND	40.7	43.6	107		33.5	84		30-150	26		50	A
Endrin	ND	40.7	48.5	119		37.7	95		30-150	25		50	A
Endrin ketone	ND	40.7	34.9	86		28.0	70		30-150	22		50	A
Dieldrin	ND	40.7	46.2	114		36.2	91		30-150	24		50	A
4,4'-DDE	ND	40.7	49.0	121		37.5	94		30-150	27		50	A
4,4'-DDD	ND	40.7	43.0	106		33.7	85		30-150	24		50	A
4,4'-DDT	ND	40.7	43.1	106		33.8	85		30-150	24		50	A
Endosulfan I	ND	40.7	45.1	111		34.7	87		30-150	26		50	A
Endosulfan II	ND	40.7	42.4	104		33.4	84		30-150	24		50	A
Endosulfan sulfate	ND	40.7	37.5	92		30.4	76		30-150	21		50	A
Methoxychlor	ND	40.7	37.6	93		30.0	75		30-150	22		50	A
cis-Chlordane	ND	40.7	44.6	110		34.9	88		30-150	24		50	A
trans-Chlordane	ND	40.7	45.1	111		34.6	87		30-150	26		50	A

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG669926-4 WG669926-5 QC Sample: L1403105-18 Client ID: MS Sample												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		62		30-150	A
Decachlorobiphenyl	95		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		52		30-150	B
Decachlorobiphenyl	88		69		30-150	B

METALS

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403115
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-01
Client ID: SB-1 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 89%

Date Collected: 02/07/14 08:30
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6100		mg/kg	8.8	1.8	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.4	0.71	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Arsenic, Total	2.6		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Barium, Total	48		mg/kg	0.88	0.26	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Beryllium, Total	0.28	J	mg/kg	0.44	0.09	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Cadmium, Total	0.78	J	mg/kg	0.88	0.06	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Calcium, Total	11000		mg/kg	8.8	2.6	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Chromium, Total	12		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Cobalt, Total	4.3		mg/kg	1.8	0.44	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Copper, Total	150		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Iron, Total	11000		mg/kg	4.4	1.8	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Lead, Total	65		mg/kg	4.4	0.18	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Magnesium, Total	2000		mg/kg	8.8	0.88	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Manganese, Total	180		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Mercury, Total	0.10		mg/kg	0.08	0.02	1	02/13/14 07:21	02/13/14 13:26	EPA 7471B	1,7471B	MC
Nickel, Total	9.8		mg/kg	2.2	0.35	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Potassium, Total	800		mg/kg	220	35.	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.26	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Sodium, Total	240		mg/kg	180	26.	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.35	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Vanadium, Total	15		mg/kg	0.88	0.09	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH
Zinc, Total	300		mg/kg	4.4	0.62	2	02/11/14 12:03	02/12/14 15:31	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403115
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-02
Client ID: SB-1 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 02/07/14 09:35
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2100		mg/kg	9.2	1.8	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.6	0.74	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.92	0.18	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Barium, Total	20		mg/kg	0.92	0.28	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Beryllium, Total	0.15	J	mg/kg	0.46	0.09	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Cadmium, Total	0.27	J	mg/kg	0.92	0.07	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Calcium, Total	660		mg/kg	9.2	2.8	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Chromium, Total	6.1		mg/kg	0.92	0.18	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Cobalt, Total	2.3		mg/kg	1.8	0.46	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Copper, Total	5.3		mg/kg	0.92	0.18	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Iron, Total	5000		mg/kg	4.6	1.8	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Lead, Total	2.0	J	mg/kg	4.6	0.18	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Magnesium, Total	910		mg/kg	9.2	0.92	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Manganese, Total	220		mg/kg	0.92	0.18	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.10	0.02	1	02/13/14 07:21	02/13/14 13:27	EPA 7471B	1,7471B	MC
Nickel, Total	6.6		mg/kg	2.3	0.37	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Potassium, Total	470		mg/kg	230	37.	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.28	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.92	0.18	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Sodium, Total	100	J	mg/kg	180	28.	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.37	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Vanadium, Total	6.2		mg/kg	0.92	0.09	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH
Zinc, Total	8.4		mg/kg	4.6	0.65	2	02/11/14 12:03	02/12/14 15:34	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403115
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-03
Client ID: SB-2 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 02/07/14 10:25
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5100		mg/kg	8.9	1.8	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.5	0.71	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Arsenic, Total	2.9		mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Barium, Total	35		mg/kg	0.89	0.27	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Beryllium, Total	0.21	J	mg/kg	0.45	0.09	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Cadmium, Total	0.67	J	mg/kg	0.89	0.06	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Calcium, Total	27000		mg/kg	8.9	2.7	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Chromium, Total	10		mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Cobalt, Total	3.2		mg/kg	1.8	0.45	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Copper, Total	58		mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Iron, Total	8700		mg/kg	4.5	1.8	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Lead, Total	100		mg/kg	4.5	0.18	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Magnesium, Total	5800		mg/kg	8.9	0.89	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Manganese, Total	140		mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Mercury, Total	0.18		mg/kg	0.09	0.02	1	02/13/14 07:21	02/13/14 13:29	EPA 7471B	1,7471B	MC
Nickel, Total	7.4		mg/kg	2.2	0.36	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Potassium, Total	650		mg/kg	220	36.	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.27	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Sodium, Total	220		mg/kg	180	27.	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Vanadium, Total	16		mg/kg	0.89	0.09	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH
Zinc, Total	120		mg/kg	4.5	0.62	2	02/11/14 12:03	02/12/14 15:38	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403115
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-04
Client ID: SB-2 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 02/07/14 11:40
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3600		mg/kg	8.7	1.7	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.4	0.70	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Arsenic, Total	0.48	J	mg/kg	0.87	0.17	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Barium, Total	31		mg/kg	0.87	0.26	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Beryllium, Total	0.30	J	mg/kg	0.44	0.09	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Cadmium, Total	0.44	J	mg/kg	0.87	0.06	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Calcium, Total	7500		mg/kg	8.7	2.6	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Chromium, Total	8.3		mg/kg	0.87	0.17	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Cobalt, Total	3.4		mg/kg	1.7	0.44	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Copper, Total	8.2		mg/kg	0.87	0.17	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Iron, Total	8700		mg/kg	4.4	1.7	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Lead, Total	4.7		mg/kg	4.4	0.17	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Magnesium, Total	2800		mg/kg	8.7	0.87	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Manganese, Total	380		mg/kg	0.87	0.17	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.09	0.02	1	02/13/14 07:21	02/13/14 13:31	EPA 7471B	1,7471B	MC
Nickel, Total	8.2		mg/kg	2.2	0.35	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Potassium, Total	1100		mg/kg	220	35.	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.7	0.26	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.87	0.17	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Sodium, Total	130	J	mg/kg	170	26.	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.35	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Vanadium, Total	11		mg/kg	0.87	0.09	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH
Zinc, Total	15		mg/kg	4.4	0.61	2	02/11/14 12:03	02/12/14 15:42	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE.
Lab Number: L1403115
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-05
Client ID: SB-3 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 02/07/14 13:55
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2900		mg/kg	9.1	1.8	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.6	0.73	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Arsenic, Total	0.48	J	mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Barium, Total	29		mg/kg	0.91	0.27	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Beryllium, Total	0.20	J	mg/kg	0.46	0.09	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Cadmium, Total	0.37	J	mg/kg	0.91	0.06	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Calcium, Total	800		mg/kg	9.1	2.7	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Chromium, Total	7.1		mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Cobalt, Total	3.3		mg/kg	1.8	0.46	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Copper, Total	7.5		mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Iron, Total	7000		mg/kg	4.6	1.8	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Lead, Total	3.0	J	mg/kg	4.6	0.18	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Magnesium, Total	1300		mg/kg	9.1	0.91	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Manganese, Total	300		mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.09	0.02	1	02/13/14 07:21	02/13/14 13:33	EPA 7471B	1,7471B	MC
Nickel, Total	8.4		mg/kg	2.3	0.36	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Potassium, Total	730		mg/kg	230	36.	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.27	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Sodium, Total	120	J	mg/kg	180	27.	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Vanadium, Total	8.5		mg/kg	0.91	0.09	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH
Zinc, Total	13		mg/kg	4.6	0.64	2	02/11/14 12:03	02/12/14 16:08	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE. **Lab Number:** L1403115

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG669777-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Antimony, Total	0.51	J	mg/kg	2.0	0.32	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Calcium, Total	ND		mg/kg	4.0	1.2	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Iron, Total	ND		mg/kg	2.0	0.80	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Thallium, Total	ND		mg/kg	0.80	0.16	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG670081-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/13/14 07:21	02/13/14 12:54	1,7471B	MC

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG669777-2 SRM Lot Number: 0518-10-02								
Aluminum, Total	78		-		29-171	-		
Antimony, Total	117		-		4-196	-		
Arsenic, Total	100		-		81-119	-		
Barium, Total	92		-		83-118	-		
Beryllium, Total	98		-		83-117	-		
Cadmium, Total	94		-		82-117	-		
Calcium, Total	90		-		83-117	-		
Chromium, Total	92		-		80-119	-		
Cobalt, Total	92		-		83-117	-		
Copper, Total	92		-		83-117	-		
Iron, Total	101		-		51-150	-		
Lead, Total	90		-		80-120	-		
Magnesium, Total	78		-		74-126	-		
Manganese, Total	95		-		83-117	-		
Nickel, Total	94		-		82-117	-		
Potassium, Total	99		-		74-126	-		
Selenium, Total	102		-		80-120	-		
Silver, Total	102		-		66-134	-		
Sodium, Total	98		-		74-127	-		
Thallium, Total	91		-		79-120	-		
Vanadium, Total	89		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403115

Report Date: 02/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG669777-2 SRM Lot Number: 0518-10-02					
Zinc, Total	97	-	82-119	-	
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG670081-2 SRM Lot Number: 0518-10-02					
Mercury, Total	124	-	67-133	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG669777-4 QC Sample: L1403053-01 Client ID: MS Sample												
Aluminum, Total	5000	308	5900	**292**	Q	-	-		75-125	-		35
Antimony, Total	1.6J	76.9	72	94		-	-		75-125	-		35
Arsenic, Total	18.	18.4	29	**60**	Q	-	-		75-125	-		35
Barium, Total	140	308	460	104		-	-		75-125	-		35
Beryllium, Total	0.20J	7.69	7.8	101		-	-		75-125	-		35
Cadmium, Total	22.	7.84	30	102		-	-		75-125	-		35
Calcium, Total	12000	1540	16000	**260**	Q	-	-		75-125	-		35
Chromium, Total	41.	30.8	66	81		-	-		75-125	-		35
Cobalt, Total	25.	76.9	93	88		-	-		75-125	-		35
Copper, Total	710	38.4	760	**130**	Q	-	-		75-125	-		35
Iron, Total	39000	154	38000	**0**	Q	-	-		75-125	-		35
Lead, Total	920	78.4	970	**64**	Q	-	-		75-125	-		35
Magnesium, Total	1000	1540	2300	84		-	-		75-125	-		35
Manganese, Total	540	76.9	680	**182**	Q	-	-		75-125	-		35
Nickel, Total	42.	76.9	110	88		-	-		75-125	-		35
Potassium, Total	930	1540	2600	108		-	-		75-125	-		35
Selenium, Total	1.3J	18.4	19	103		-	-		75-125	-		35
Silver, Total	0.45J	46.1	46	100		-	-		75-125	-		35
Sodium, Total	330	1540	2000	108		-	-		75-125	-		35
Thallium, Total	ND	18.4	14	76		-	-		75-125	-		35
Vanadium, Total	43.	76.9	120	100		-	-		75-125	-		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG669777-4 QC Sample: L1403053-01 Client ID: MS Sample										
Zinc, Total	2800	76.9	2900	**130**	Q	-	-	75-125	-	35
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG670081-4 QC Sample: L1403106-13 Client ID: MS Sample										
Mercury, Total	0.14	0.176	0.41	**153**	Q	-	-	80-120	-	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG669777-3 QC Sample: L1403053-01 Client ID: DUP Sample						
Arsenic, Total	18.	31	mg/kg	**53**	Q	35
Barium, Total	140	170	mg/kg	19		35
Beryllium, Total	0.20J	0.20J	mg/kg	NC		35
Cadmium, Total	22.	23	mg/kg	4		35
Chromium, Total	41.	41	mg/kg	0		35
Copper, Total	710	750	mg/kg	5		35
Lead, Total	920	920	mg/kg	0		35
Nickel, Total	42.	41	mg/kg	2		35
Selenium, Total	1.3J	ND	mg/kg	NC		35
Silver, Total	0.45J	0.63J	mg/kg	NC		35
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG670081-3 QC Sample: L1403106-13 Client ID: DUP Sample						
Mercury, Total	0.14	0.19	mg/kg	30		35

INORGANICS
&
MISCELLANEOUS

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-01
Client ID: SB-1 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/07/14 08:30
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	02/10/14 21:16	30,2540G	RT

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-02
Client ID: SB-1 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/07/14 09:35
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	02/10/14 21:16	30,2540G	RT

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-03
Client ID: SB-2 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/07/14 10:25
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	02/10/14 21:16	30,2540G	RT

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-04
Client ID: SB-2 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/07/14 11:40
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	02/10/14 21:16	30,2540G	RT

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403115-05
Client ID: SB-3 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/07/14 13:55
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	02/10/14 21:16	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG669648-1 QC Sample: L1403115-01 Client ID: SB-1 (7-10)						
Solids, Total	89.3	90.9	%	2		20

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 02/08/2014 03:17

Cooler Information Custody Seal

Cooler	
D	Absent
F	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403115-01A	5 gram Encore Sampler	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(2)
L1403115-01B	5 gram Encore Sampler	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(2)
L1403115-01C	5 gram Encore Sampler	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(2)
L1403115-01D	Plastic 2oz unpreserved for TS	D	N/A	4.0	Y	Absent	TS(7)
L1403115-01E	Amber 120ml unpreserved	D	N/A	4.0	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403115-01F	Amber 250ml unpreserved	D	N/A	4.0	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403115-01X	Vial MeOH preserved split	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1403115-01Y	Vial Water preserved split	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1403115-01Z	Vial Water preserved split	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1403115-02A	5 gram Encore Sampler	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(2)
L1403115-02B	5 gram Encore Sampler	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(2)
L1403115-02C	5 gram Encore Sampler	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(2)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403115-02D	Plastic 2oz unpreserved for TS	D	N/A	4.0	Y	Absent	TS(7)
L1403115-02E	Amber 250ml unpreserved	D	N/A	4.0	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403115-02X	Vial MeOH preserved split	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1403115-02Y	Vial Water preserved split	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1403115-02Z	Vial Water preserved split	D	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1403115-03A	5 gram Encore Sampler	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1403115-03B	5 gram Encore Sampler	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1403115-03C	5 gram Encore Sampler	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1403115-03D	Plastic 2oz unpreserved for TS	F	N/A	2.8	Y	Absent	TS(7)
L1403115-03E	Amber 120ml unpreserved	F	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403115-03F	Amber 250ml unpreserved	F	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403115-03X	Vial MeOH preserved split	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1403115-03Y	Vial Water preserved split	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1403115-03Z	Vial Water preserved split	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1403115-04A	5 gram Encore Sampler	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1403115-04B	5 gram Encore Sampler	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403115
Report Date: 02/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403115-04C	5 gram Encore Sampler	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1403115-04D	Plastic 2oz unpreserved for TS	F	N/A	2.8	Y	Absent	TS(7)
L1403115-04E	Amber 250ml unpreserved	F	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403115-04X	Vial MeOH preserved split	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1403115-04Y	Vial Water preserved split	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1403115-04Z	Vial Water preserved split	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1403115-05A	5 gram Encore Sampler	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1403115-05B	5 gram Encore Sampler	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1403115-05C	5 gram Encore Sampler	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1403115-05D	Plastic 2oz unpreserved for TS	F	N/A	2.8	Y	Absent	TS(7)
L1403115-05E	Amber 250ml unpreserved	F	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403115-05X	Vial MeOH preserved split	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1403115-05Y	Vial Water preserved split	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1403115-05Z	Vial Water preserved split	F	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1403115-06A	Vial HCl preserved	F	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1403115-06B	Vial HCl preserved	F	N/A	2.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	239 10TH AVE.	**Lab Number:**	L1403115
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE.	**Lab Number:**	L1403115
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE.	**Lab Number:**	L1403115
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 2/8/14

ALPHA Job #: L1403115

Client Information

Client: Roux Associates
Address: 209 SHAFTER ST
ISLANDIA, NY 11749
Phone: 631-232-2600
Fax: 631-232-9898
Email: WSHEN@roux inc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 239 10th Ave
Project Location: New York, NY
Project #: 2355.00014000
Project Manager: WENDY SHEN
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 2/14/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
CAT B DELIVERABLE (OER/VERT DELINEATION)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	TAL METALS	TCL PEST PCBS										Sample Specific Comments	TOTAL # BOTTLES
03115-01	SB-1 (7-10)	2/7/14	0830	S	JW	X	X	X	X	X										
02	SB-1 (30-32)		0935	S	JW	X	X	X												
03	SB-2 (7-10)		1025	S	JW	X	X	X	X	X										
04	SB-2 (30-32)		1140	S	JW	X	X	X												
05	SB-3 (30-32)		1355	S	JW	X	X	X												
06	TRIP BLANK		—	TB	LAB	X														

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	E	G	G	G	G									
Preservative	A	A	A	A	A									

Relinquished By:	Date/Time	Received By:	Date/Time
	2/7/14 1605		2/7/14 1605
	2/7/14 18:35		2/7/14 18:35
	2/8/14 0015		2/8/14 0045

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1403158
Client:	Roux Associates, Inc. 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Wendy Shen
Phone:	(631) 232-2600
Project Name:	239 10TH AVE
Project Number:	2355.0001Y000
Report Date:	02/17/14

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1403158-01	SB-6 (7-10)	NEW YORK, NY	02/10/14 07:45
L1403158-02	SB-6 (30-32)	NEW YORK, NY	02/10/14 09:00
L1403158-03	FIELD BLANK	NEW YORK, NY	02/10/14 09:15
L1403158-04	SB-4 (6-8.5)	NEW YORK, NY	02/10/14 09:55
L1403158-05	SB-4 (30-32)	NEW YORK, NY	02/10/14 10:55
L1403158-06	SB-7 (36-38)	NEW YORK, NY	02/10/14 13:30
L1403158-07	TRIP BLANK	NEW YORK, NY	02/10/14 00:00

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 239 10TH AVE **Lab Number:** L1403158
Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L1403158-01 and -04 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the sample matrices.

The surrogate recoveries for L1403158-01 and -04 are below the acceptance criteria for 2-fluorophenol, phenol-d6, nitrobenzene-d5, 2-fluorobiphenyl, and 4-terphenyl-d14 (all at 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

Pesticides

L1403158-01 and -04 have elevated detection limits due to the dilutions required by the sample matrices.

The surrogate recoveries for L1403158-01 and -04 are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene and decachlorobiphenyl (all at 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

Metals

L1403158-01, -02, -04, -05, and -06 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 02/17/14

ORGANICS

VOLATILES

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-01 D
Client ID: SB-6 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/14/14 17:13
Analyst: MV
Percent Solids: 87%

Date Collected: 02/10/14 07:45
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1400	280	2
1,1-Dichloroethane	ND		ug/kg	210	25.	2
Chloroform	ND		ug/kg	210	51.	2
Carbon tetrachloride	ND		ug/kg	140	29.	2
1,2-Dichloropropane	ND		ug/kg	480	32.	2
Dibromochloromethane	ND		ug/kg	140	43.	2
1,1,2-Trichloroethane	ND		ug/kg	210	42.	2
Tetrachloroethene	ND		ug/kg	140	19.	2
Chlorobenzene	ND		ug/kg	140	48.	2
Trichlorofluoromethane	ND		ug/kg	690	17.	2
1,2-Dichloroethane	ND		ug/kg	140	20.	2
1,1,1-Trichloroethane	ND		ug/kg	140	15.	2
Bromodichloromethane	ND		ug/kg	140	32.	2
trans-1,3-Dichloropropene	ND		ug/kg	140	17.	2
cis-1,3-Dichloropropene	ND		ug/kg	140	18.	2
1,1-Dichloropropene	ND		ug/kg	690	63.	2
Bromoform	ND		ug/kg	560	58.	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	140	24.	2
Benzene	ND		ug/kg	140	16.	2
Toluene	41	J	ug/kg	210	16.	2
Ethylbenzene	1100		ug/kg	140	20.	2
Chloromethane	ND		ug/kg	690	110	2
Bromomethane	ND		ug/kg	280	47.	2
Vinyl chloride	ND		ug/kg	280	20.	2
Chloroethane	ND		ug/kg	280	44.	2
1,1-Dichloroethene	ND		ug/kg	140	28.	2
trans-1,2-Dichloroethene	ND		ug/kg	210	29.	2
Trichloroethene	ND		ug/kg	140	21.	2
1,2-Dichlorobenzene	ND		ug/kg	690	25.	2
1,3-Dichlorobenzene	ND		ug/kg	690	25.	2
1,4-Dichlorobenzene	ND		ug/kg	690	34.	2

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-01 D Date Collected: 02/10/14 07:45

Client ID: SB-6 (7-10) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	280	14.	2
p/m-Xylene	1300		ug/kg	280	45.	2
o-Xylene	420		ug/kg	280	38.	2
cis-1,2-Dichloroethene	ND		ug/kg	140	21.	2
Dibromomethane	ND		ug/kg	1400	23.	2
Styrene	ND		ug/kg	280	43.	2
Dichlorodifluoromethane	ND		ug/kg	1400	30.	2
Acetone	ND		ug/kg	1400	430	2
Carbon disulfide	ND		ug/kg	1400	280	2
2-Butanone	ND		ug/kg	1400	49.	2
Vinyl acetate	ND		ug/kg	1400	66.	2
4-Methyl-2-pentanone	ND		ug/kg	1400	34.	2
1,2,3-Trichloropropane	ND		ug/kg	1400	31.	2
2-Hexanone	ND		ug/kg	1400	26.	2
Bromochloromethane	ND		ug/kg	690	27.	2
2,2-Dichloropropane	ND		ug/kg	690	31.	2
1,2-Dibromoethane	ND		ug/kg	560	25.	2
1,3-Dichloropropane	ND		ug/kg	690	24.	2
1,1,1,2-Tetrachloroethane	ND		ug/kg	140	44.	2
Bromobenzene	ND		ug/kg	690	29.	2
n-Butylbenzene	740		ug/kg	140	27.	2
sec-Butylbenzene	290		ug/kg	140	28.	2
tert-Butylbenzene	ND		ug/kg	690	78.	2
o-Chlorotoluene	ND		ug/kg	690	22.	2
p-Chlorotoluene	ND		ug/kg	690	21.	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	690	110	2
Hexachlorobutadiene	ND		ug/kg	690	59.	2
Isopropylbenzene	440		ug/kg	140	23.	2
p-Isopropyltoluene	190		ug/kg	140	26.	2
Naphthalene	980		ug/kg	690	110	2
Acrylonitrile	ND		ug/kg	1400	33.	2
Tert-Butyl Alcohol	ND		ug/kg	8300	120	2
n-Propylbenzene	1800		ug/kg	140	17.	2
1,2,3-Trichlorobenzene	ND		ug/kg	690	23.	2
1,2,4-Trichlorobenzene	ND		ug/kg	690	110	2
1,3,5-Trimethylbenzene	2000		ug/kg	690	20.	2
1,2,4-Trimethylbenzene	10000		ug/kg	690	80.	2
1,4-Dioxane	ND		ug/kg	14000	2400	2
p-Diethylbenzene	4000		ug/kg	560	22.	2

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-01 D Date Collected: 02/10/14 07:45

Client ID: SB-6 (7-10) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	4000		ug/kg	560	16.	2
1,2,4,5-Tetramethylbenzene	1900		ug/kg	560	18.	2
Ethyl ether	ND		ug/kg	690	37.	2
trans-1,4-Dichloro-2-butene	ND		ug/kg	690	62.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	94		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-02
Client ID: SB-6 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/14/14 10:09
Analyst: MV
Percent Solids: 84%

Date Collected: 02/10/14 09:00
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.21	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.53	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.8	0.91	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.28	1

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-02 Date Collected: 02/10/14 09:00

Client ID: SB-6 (30-32) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.38	1
o-Xylene	ND		ug/kg	2.3	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.25	1
Acetone	ND		ug/kg	12	3.6	1
Carbon disulfide	ND		ug/kg	12	2.3	1
2-Butanone	ND		ug/kg	12	0.41	1
Vinyl acetate	ND		ug/kg	12	0.56	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.8	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.8	0.65	1
o-Chlorotoluene	ND		ug/kg	5.8	0.19	1
p-Chlorotoluene	ND		ug/kg	5.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	ND		ug/kg	5.8	0.90	1
Acrylonitrile	ND		ug/kg	12	0.28	1
Tert-Butyl Alcohol	ND		ug/kg	70	1.0	1
n-Propylbenzene	ND		ug/kg	1.2	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.92	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.67	1
1,4-Dioxane	ND		ug/kg	120	20.	1
p-Diethylbenzene	ND		ug/kg	4.6	0.19	1

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-02 Date Collected: 02/10/14 09:00

Client ID: SB-6 (30-32) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	4.6	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-03
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/11/14 13:30
Analyst: PD

Date Collected: 02/10/14 09:15
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1403158
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-03
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 09:15
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.6	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1403158
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-03
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 09:15
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-04
Client ID: SB-4 (6-8.5)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/14/14 17:42
Analyst: MV
Percent Solids: 86%

Date Collected: 02/10/14 09:55
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	690	140	1
1,1-Dichloroethane	ND		ug/kg	100	12.	1
Chloroform	ND		ug/kg	100	26.	1
Carbon tetrachloride	ND		ug/kg	69	14.	1
1,2-Dichloropropane	ND		ug/kg	240	16.	1
Dibromochloromethane	ND		ug/kg	69	21.	1
1,1,2-Trichloroethane	ND		ug/kg	100	21.	1
Tetrachloroethene	ND		ug/kg	69	9.7	1
Chlorobenzene	ND		ug/kg	69	24.	1
Trichlorofluoromethane	ND		ug/kg	340	8.4	1
1,2-Dichloroethane	ND		ug/kg	69	10.	1
1,1,1-Trichloroethane	ND		ug/kg	69	7.6	1
Bromodichloromethane	ND		ug/kg	69	16.	1
trans-1,3-Dichloropropene	ND		ug/kg	69	8.3	1
cis-1,3-Dichloropropene	ND		ug/kg	69	8.8	1
1,1-Dichloropropene	ND		ug/kg	340	31.	1
Bromoform	ND		ug/kg	280	29.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	69	12.	1
Benzene	20	J	ug/kg	69	8.2	1
Toluene	130		ug/kg	100	7.7	1
Ethylbenzene	770		ug/kg	69	10.	1
Chloromethane	ND		ug/kg	340	54.	1
Bromomethane	ND		ug/kg	140	23.	1
Vinyl chloride	ND		ug/kg	140	9.8	1
Chloroethane	ND		ug/kg	140	22.	1
1,1-Dichloroethene	ND		ug/kg	69	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	15.	1
Trichloroethene	ND		ug/kg	69	10.	1
1,2-Dichlorobenzene	ND		ug/kg	340	13.	1
1,3-Dichlorobenzene	ND		ug/kg	340	13.	1
1,4-Dichlorobenzene	ND		ug/kg	340	17.	1

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-04 Date Collected: 02/10/14 09:55

Client ID: SB-4 (6-8.5) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	140	7.2	1
p/m-Xylene	2400		ug/kg	140	22.	1
o-Xylene	920		ug/kg	140	19.	1
cis-1,2-Dichloroethene	ND		ug/kg	69	10.	1
Dibromomethane	ND		ug/kg	690	11.	1
Styrene	ND		ug/kg	140	21.	1
Dichlorodifluoromethane	ND		ug/kg	690	15.	1
Acetone	ND		ug/kg	690	210	1
Carbon disulfide	ND		ug/kg	690	140	1
2-Butanone	ND		ug/kg	690	24.	1
Vinyl acetate	ND		ug/kg	690	33.	1
4-Methyl-2-pentanone	ND		ug/kg	690	17.	1
1,2,3-Trichloropropane	ND		ug/kg	690	16.	1
2-Hexanone	ND		ug/kg	690	13.	1
Bromochloromethane	ND		ug/kg	340	14.	1
2,2-Dichloropropane	ND		ug/kg	340	16.	1
1,2-Dibromoethane	ND		ug/kg	280	12.	1
1,3-Dichloropropane	ND		ug/kg	340	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	69	22.	1
Bromobenzene	ND		ug/kg	340	14.	1
n-Butylbenzene	330		ug/kg	69	14.	1
sec-Butylbenzene	120		ug/kg	69	14.	1
tert-Butylbenzene	ND		ug/kg	340	39.	1
o-Chlorotoluene	ND		ug/kg	340	11.	1
p-Chlorotoluene	ND		ug/kg	340	11.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	340	54.	1
Hexachlorobutadiene	ND		ug/kg	340	29.	1
Isopropylbenzene	190		ug/kg	69	12.	1
p-Isopropyltoluene	74		ug/kg	69	13.	1
Naphthalene	960		ug/kg	340	53.	1
Acrylonitrile	ND		ug/kg	690	16.	1
Tert-Butyl Alcohol	ND		ug/kg	4100	63.	1
n-Propylbenzene	880		ug/kg	69	8.7	1
1,2,3-Trichlorobenzene	ND		ug/kg	340	12.	1
1,2,4-Trichlorobenzene	ND		ug/kg	340	54.	1
1,3,5-Trimethylbenzene	1700		ug/kg	340	9.9	1
1,2,4-Trimethylbenzene	6800		ug/kg	340	40.	1
1,4-Dioxane	ND		ug/kg	6900	1200	1
p-Diethylbenzene	3000		ug/kg	280	11.	1

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-04 Date Collected: 02/10/14 09:55

Client ID: SB-4 (6-8.5) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	4400		ug/kg	280	8.1	1
1,2,4,5-Tetramethylbenzene	1400		ug/kg	280	9.0	1
Ethyl ether	ND		ug/kg	340	18.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	31.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	93		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-05
Client ID: SB-4 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/14/14 10:37
Analyst: MV
Percent Solids: 86%

Date Collected: 02/10/14 10:55
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.13	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.5	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.89	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.28	1

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-05 Date Collected: 02/10/14 10:55

Client ID: SB-4 (30-32) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.19	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	ND		ug/kg	11	3.5	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	ND		ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.54	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.7	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.7	0.88	1
Acrylonitrile	ND		ug/kg	11	0.27	1
Tert-Butyl Alcohol	ND		ug/kg	68	1.0	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.65	1
1,4-Dioxane	ND		ug/kg	110	20.	1
p-Diethylbenzene	ND		ug/kg	4.5	0.18	1

Project Name: 239 10TH AVE
Lab Number: L1403158
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-05
Client ID: SB-4 (30-32)
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 10:55
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	4.5	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	97		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-06
Client ID: SB-7 (36-38)
Sample Location: NEW YORK, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/14/14 11:05
Analyst: MV
Percent Solids: 86%

Date Collected: 02/10/14 13:30
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.53	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.8	0.91	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.28	1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-06
Client ID: SB-7 (36-38)
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 13:30
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.25	1
Acetone	ND		ug/kg	12	3.6	1
Carbon disulfide	ND		ug/kg	12	2.3	1
2-Butanone	ND		ug/kg	12	0.41	1
Vinyl acetate	ND		ug/kg	12	0.56	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.8	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.8	0.65	1
o-Chlorotoluene	ND		ug/kg	5.8	0.18	1
p-Chlorotoluene	ND		ug/kg	5.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	ND		ug/kg	5.8	0.89	1
Acrylonitrile	ND		ug/kg	12	0.28	1
Tert-Butyl Alcohol	ND		ug/kg	70	1.0	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.92	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.66	1
1,4-Dioxane	ND		ug/kg	120	20.	1
p-Diethylbenzene	ND		ug/kg	4.6	0.18	1

Project Name: 239 10TH AVE
Lab Number: L1403158
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-06
Client ID: SB-7 (36-38)
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 13:30
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p-Ethyltoluene	ND		ug/kg	4.6	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-07
Client ID: TRIP BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/11/14 13:57
Analyst: PD

Date Collected: 02/10/14 00:00
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-07
Client ID: TRIP BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 00:00
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1403158
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-07
Client ID: TRIP BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 00:00
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	107		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/11/14 10:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,07 Batch: WG669848-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/11/14 10:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,07 Batch: WG669848-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/11/14 10:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,07 Batch: WG669848-3					
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/14/14 09:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,05-06 Batch: WG670509-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/14/14 09:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,05-06 Batch: WG670509-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/14/14 09:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,05-06 Batch: WG670509-3					
Tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
1,4-Dioxane	ND		ug/kg	100	17.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Tentatively Identified Compounds					
Unknown	2.4	J	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/14/14 09:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04 Batch: WG670657-3					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2
1,4-Dichlorobenzene	ND		ug/kg	250	12.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/14/14 09:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04 Batch: WG670657-3					
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.
Acrylonitrile	ND		ug/kg	500	12.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/14/14 09:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04 Batch: WG670657-3					
Tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
1,4-Dioxane	ND		ug/kg	5000	870
p-Diethylbenzene	ND		ug/kg	200	8.0
p-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,07 Batch: WG669848-1 WG669848-2								
Methylene chloride	102		99		70-130	3		20
1,1-Dichloroethane	107		103		70-130	4		20
Chloroform	110		105		70-130	5		20
Carbon tetrachloride	106		102		63-132	4		20
1,2-Dichloropropane	105		102		70-130	3		20
Dibromochloromethane	96		96		63-130	0		20
1,1,2-Trichloroethane	103		102		70-130	1		20
Tetrachloroethene	100		96		70-130	4		20
Chlorobenzene	100		97		75-130	3		20
Trichlorofluoromethane	111		103		62-150	7		20
1,2-Dichloroethane	105		104		70-130	1		20
1,1,1-Trichloroethane	106		102		67-130	4		20
Bromodichloromethane	106		103		67-130	3		20
trans-1,3-Dichloropropene	104		104		70-130	0		20
cis-1,3-Dichloropropene	104		102		70-130	2		20
1,1-Dichloropropene	113		109		70-130	4		20
Bromoform	94		96		54-136	2		20
1,1,2,2-Tetrachloroethane	96		99		67-130	3		20
Benzene	107		103		70-130	4		20
Toluene	103		100		70-130	3		20
Ethylbenzene	104		101		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,07 Batch: WG669848-1 WG669848-2								
Chloromethane	102		95		64-130	7		20
Bromomethane	83		80		39-139	4		20
Vinyl chloride	96		91		55-140	5		20
Chloroethane	105		101		55-138	4		20
1,1-Dichloroethene	106		99		61-145	7		20
trans-1,2-Dichloroethene	107		102		70-130	5		20
Trichloroethene	112		107		70-130	5		20
1,2-Dichlorobenzene	98		97		70-130	1		20
1,3-Dichlorobenzene	100		98		70-130	2		20
1,4-Dichlorobenzene	99		97		70-130	2		20
Methyl tert butyl ether	102		102		63-130	0		20
p/m-Xylene	107		103		70-130	4		20
o-Xylene	106		103		70-130	3		20
cis-1,2-Dichloroethene	111		108		70-130	3		20
Dibromomethane	101		100		70-130	1		20
1,2,3-Trichloropropane	97		98		64-130	1		20
Acrylonitrile	103		102		70-130	1		20
Isopropyl Ether	110		108		70-130	2		20
Tert-Butyl Alcohol	113		115		70-130	2		20
Styrene	111		108		70-130	3		20
Dichlorodifluoromethane	94		88		36-147	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,07 Batch: WG669848-1 WG669848-2								
Acetone	76		76		58-148	0		20
Carbon disulfide	98		94		51-130	4		20
2-Butanone	131		131		63-138	0		20
Vinyl acetate	106		105		70-130	1		20
4-Methyl-2-pentanone	75		79		59-130	5		20
2-Hexanone	88		93		57-130	6		20
Bromochloromethane	102		102		70-130	0		20
2,2-Dichloropropane	109		104		63-133	5		20
1,2-Dibromoethane	96		98		70-130	2		20
1,3-Dichloropropane	100		101		70-130	1		20
1,1,1,2-Tetrachloroethane	104		102		64-130	2		20
Bromobenzene	92		93		70-130	1		20
n-Butylbenzene	109		104		53-136	5		20
sec-Butylbenzene	103		101		70-130	2		20
tert-Butylbenzene	100		98		70-130	2		20
o-Chlorotoluene	102		101		70-130	1		20
p-Chlorotoluene	100		99		70-130	1		20
1,2-Dibromo-3-chloropropane	103		102		41-144	1		20
Hexachlorobutadiene	99		96		63-130	3		20
Isopropylbenzene	97		96		70-130	1		20
p-Isopropyltoluene	104		102		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,07 Batch: WG669848-1 WG669848-2								
Naphthalene	100		102		70-130	2		20
n-Propylbenzene	104		102		69-130	2		20
1,2,3-Trichlorobenzene	99		99		70-130	0		20
1,2,4-Trichlorobenzene	101		98		70-130	3		20
1,3,5-Trimethylbenzene	105		103		64-130	2		20
1,2,4-Trimethylbenzene	109		106		70-130	3		20
Methyl Acetate	99		100		70-130	1		20
Ethyl Acetate	96		98		70-130	2		20
Cyclohexane	113		107		70-130	5		20
Ethyl-Tert-Butyl-Ether	107		106		70-130	1		20
Tertiary-Amyl Methyl Ether	104		104		66-130	0		20
1,4-Dioxane	110		91		56-162	19		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	108		102		70-130	6		20
p-Diethylbenzene	109		107		70-130	2		20
p-Ethyltoluene	98		96		70-130	2		20
1,2,4,5-Tetramethylbenzene	100		96		70-130	4		20
Ethyl ether	101		99		59-134	2		20
trans-1,4-Dichloro-2-butene	81		86		70-130	6		20
Iodomethane	84		84		70-130	0		20
Methyl cyclohexane	111		104		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,07 Batch: WG669848-1 WG669848-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		102		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	94		96		70-130
Dibromofluoromethane	105		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,05-06 Batch: WG670509-1 WG670509-2								
Methylene chloride	98		100		70-130	2		30
1,1-Dichloroethane	94		97		70-130	3		30
Chloroform	94		98		70-130	4		30
Carbon tetrachloride	97		101		70-130	4		30
1,2-Dichloropropane	96		99		70-130	3		30
Dibromochloromethane	92		95		70-130	3		30
2-Chloroethylvinyl ether	96		99		70-130	3		30
1,1,2-Trichloroethane	97		100		70-130	3		30
Tetrachloroethene	94		97		70-130	3		30
Chlorobenzene	95		98		70-130	3		30
Trichlorofluoromethane	102		105		70-139	3		30
1,2-Dichloroethane	95		100		70-130	5		30
1,1,1-Trichloroethane	93		97		70-130	4		30
Bromodichloromethane	94		98		70-130	4		30
trans-1,3-Dichloropropene	92		95		70-130	3		30
cis-1,3-Dichloropropene	94		97		70-130	3		30
1,1-Dichloropropene	95		98		70-130	3		30
Bromoform	88		92		70-130	4		30
1,1,2,2-Tetrachloroethane	96		102		70-130	6		30
Benzene	93		96		70-130	3		30
Toluene	92		93		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,05-06 Batch: WG670509-1 WG670509-2								
Ethylbenzene	94		96		70-130	2		30
Chloromethane	86		89		52-130	3		30
Bromomethane	124		126		57-147	2		30
Vinyl chloride	94		99		67-130	5		30
Chloroethane	104		105		50-151	1		30
1,1-Dichloroethene	93		102		65-135	9		30
trans-1,2-Dichloroethene	95		98		70-130	3		30
Trichloroethene	95		98		70-130	3		30
1,2-Dichlorobenzene	100		102		70-130	2		30
1,3-Dichlorobenzene	101		102		70-130	1		30
1,4-Dichlorobenzene	102		104		70-130	2		30
Methyl tert butyl ether	90		95		66-130	5		30
p/m-Xylene	95		97		70-130	2		30
o-Xylene	93		96		70-130	3		30
cis-1,2-Dichloroethene	94		97		70-130	3		30
Dibromomethane	97		103		70-130	6		30
Styrene	93		97		70-130	4		30
Dichlorodifluoromethane	92		95		30-146	3		30
Acetone	93		100		54-140	7		30
Carbon disulfide	92		95		59-130	3		30
2-Butanone	94		107		70-130	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,05-06 Batch: WG670509-1 WG670509-2								
Vinyl acetate	85		90		70-130	6		30
4-Methyl-2-pentanone	87		96		70-130	10		30
1,2,3-Trichloropropane	96		102		68-130	6		30
2-Hexanone	74		82		70-130	10		30
Bromochloromethane	97		100		70-130	3		30
2,2-Dichloropropane	90		92		70-130	2		30
1,2-Dibromoethane	93		98		70-130	5		30
1,3-Dichloropropane	94		99		69-130	5		30
1,1,1,2-Tetrachloroethane	93		95		70-130	2		30
Bromobenzene	95		97		70-130	2		30
n-Butylbenzene	108		109		70-130	1		30
sec-Butylbenzene	100		101		70-130	1		30
tert-Butylbenzene	98		98		70-130	0		30
o-Chlorotoluene	106		108		70-130	2		30
p-Chlorotoluene	101		102		70-130	1		30
1,2-Dibromo-3-chloropropane	91		98		68-130	7		30
Hexachlorobutadiene	95		97		67-130	2		30
Isopropylbenzene	96		98		70-130	2		30
p-Isopropyltoluene	101		102		70-130	1		30
Naphthalene	94		101		70-130	7		30
Acrylonitrile	93		102		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,05-06 Batch: WG670509-1 WG670509-2								
Isopropyl Ether	90		94		66-130	4		30
tert-Butyl Alcohol	83		93		70-130	11		30
n-Propylbenzene	100		100		70-130	0		30
1,2,3-Trichlorobenzene	97		101		70-130	4		30
1,2,4-Trichlorobenzene	104		106		70-130	2		30
1,3,5-Trimethylbenzene	99		100		70-130	1		30
1,2,4-Trimethylbenzene	99		101		70-130	2		30
Methyl Acetate	87		93		51-146	7		30
Ethyl Acetate	80		86		70-130	7		30
Acrolein	85		91		70-130	7		30
Cyclohexane	94		96		59-142	2		30
1,4-Dioxane	98		106		65-136	8		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		102		50-139	4		30
1,4-Diethylbenzene	104		106		70-130	2		30
4-Ethyltoluene	101		102		70-130	1		30
1,2,4,5-Tetramethylbenzene	100		102		70-130	2		30
Tetrahydrofuran	81		90		66-130	11		30
Ethyl ether	96		102		67-130	6		30
trans-1,4-Dichloro-2-butene	98		102		70-130	4		30
Methyl cyclohexane	96		99		70-130	3		30
Ethyl-Tert-Butyl-Ether	90		94		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,05-06 Batch: WG670509-1 WG670509-2								
Tertiary-Amyl Methyl Ether	88		92		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		102		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	100		96		70-130
Dibromofluoromethane	102		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG670657-1 WG670657-2								
Methylene chloride	98		100		70-130	2		30
1,1-Dichloroethane	94		97		70-130	3		30
Chloroform	94		98		70-130	4		30
Carbon tetrachloride	97		101		70-130	4		30
1,2-Dichloropropane	96		99		70-130	3		30
Dibromochloromethane	92		95		70-130	3		30
2-Chloroethylvinyl ether	96		99		70-130	3		30
1,1,2-Trichloroethane	97		100		70-130	3		30
Tetrachloroethene	94		97		70-130	3		30
Chlorobenzene	95		98		70-130	3		30
Trichlorofluoromethane	102		105		70-139	3		30
1,2-Dichloroethane	95		100		70-130	5		30
1,1,1-Trichloroethane	93		97		70-130	4		30
Bromodichloromethane	94		98		70-130	4		30
trans-1,3-Dichloropropene	92		95		70-130	3		30
cis-1,3-Dichloropropene	94		97		70-130	3		30
1,1-Dichloropropene	95		98		70-130	3		30
Bromoform	88		92		70-130	4		30
1,1,2,2-Tetrachloroethane	96		102		70-130	6		30
Benzene	93		96		70-130	3		30
Toluene	92		93		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG670657-1 WG670657-2								
Ethylbenzene	94		96		70-130	2		30
Chloromethane	86		89		52-130	3		30
Bromomethane	124		126		57-147	2		30
Vinyl chloride	94		99		67-130	5		30
Chloroethane	104		105		50-151	1		30
1,1-Dichloroethene	93		102		65-135	9		30
trans-1,2-Dichloroethene	95		98		70-130	3		30
Trichloroethene	95		98		70-130	3		30
1,2-Dichlorobenzene	100		102		70-130	2		30
1,3-Dichlorobenzene	101		102		70-130	1		30
1,4-Dichlorobenzene	102		104		70-130	2		30
Methyl tert butyl ether	90		95		66-130	5		30
p/m-Xylene	95		97		70-130	2		30
o-Xylene	93		96		70-130	3		30
cis-1,2-Dichloroethene	94		97		70-130	3		30
Dibromomethane	97		103		70-130	6		30
Styrene	93		97		70-130	4		30
Dichlorodifluoromethane	92		95		30-146	3		30
Acetone	93		100		54-140	7		30
Carbon disulfide	92		95		59-130	3		30
2-Butanone	94		107		70-130	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG670657-1 WG670657-2								
Vinyl acetate	85		90		70-130	6		30
4-Methyl-2-pentanone	87		96		70-130	10		30
1,2,3-Trichloropropane	96		102		68-130	6		30
2-Hexanone	74		82		70-130	10		30
Bromochloromethane	97		100		70-130	3		30
2,2-Dichloropropane	90		92		70-130	2		30
1,2-Dibromoethane	93		98		70-130	5		30
1,3-Dichloropropane	94		99		69-130	5		30
1,1,1,2-Tetrachloroethane	93		95		70-130	2		30
Bromobenzene	95		97		70-130	2		30
n-Butylbenzene	108		109		70-130	1		30
sec-Butylbenzene	100		101		70-130	1		30
tert-Butylbenzene	98		98		70-130	0		30
o-Chlorotoluene	106		108		70-130	2		30
p-Chlorotoluene	101		102		70-130	1		30
1,2-Dibromo-3-chloropropane	91		98		68-130	7		30
Hexachlorobutadiene	95		97		67-130	2		30
Isopropylbenzene	96		98		70-130	2		30
p-Isopropyltoluene	101		102		70-130	1		30
Naphthalene	94		101		70-130	7		30
Acrylonitrile	93		102		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG670657-1 WG670657-2								
Isopropyl Ether	90		94		66-130	4		30
tert-Butyl Alcohol	83		93		70-130	11		30
n-Propylbenzene	100		100		70-130	0		30
1,2,3-Trichlorobenzene	97		101		70-130	4		30
1,2,4-Trichlorobenzene	104		106		70-130	2		30
1,3,5-Trimethylbenzene	99		100		70-130	1		30
1,2,4-Trimethylbenzene	99		101		70-130	2		30
Methyl Acetate	87		93		51-146	7		30
Ethyl Acetate	80		86		70-130	7		30
Acrolein	85		91		70-130	7		30
Cyclohexane	94		96		59-142	2		30
1,4-Dioxane	98		106		65-136	8		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		102		50-139	4		30
1,4-Diethylbenzene	104		106		70-130	2		30
4-Ethyltoluene	101		102		70-130	1		30
1,2,4,5-Tetramethylbenzene	100		102		70-130	2		30
Tetrahydrofuran	81		90		66-130	11		30
Ethyl ether	96		102		67-130	6		30
trans-1,4-Dichloro-2-butene	98		102		70-130	4		30
Methyl cyclohexane	96		99		70-130	3		30
Ethyl-Tert-Butyl-Ether	90		94		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG670657-1 WG670657-2								
Tertiary-Amyl Methyl Ether	88		92		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		102		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	100		96		70-130
Dibromofluoromethane	102		103		70-130

SEMIVOLATILES

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-01	D	Date Collected:	02/10/14 07:45
Client ID:	SB-6 (7-10)		Date Received:	02/10/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	02/12/14 21:22
Analytical Date:	02/16/14 01:44			
Analyst:	PS			
Percent Solids:	87%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	3000	780	20
1,2,4-Trichlorobenzene	ND		ug/kg	3800	1200	20
Hexachlorobenzene	ND		ug/kg	2300	700	20
Bis(2-chloroethyl)ether	ND		ug/kg	3400	1100	20
2-Chloronaphthalene	ND		ug/kg	3800	1200	20
1,2-Dichlorobenzene	ND		ug/kg	3800	1200	20
1,3-Dichlorobenzene	ND		ug/kg	3800	1200	20
1,4-Dichlorobenzene	ND		ug/kg	3800	1200	20
3,3'-Dichlorobenzidine	ND		ug/kg	3800	1000	20
2,4-Dinitrotoluene	ND		ug/kg	3800	820	20
2,6-Dinitrotoluene	ND		ug/kg	3800	970	20
Fluoranthene	1600	J	ug/kg	2300	700	20
4-Chlorophenyl phenyl ether	ND		ug/kg	3800	1200	20
4-Bromophenyl phenyl ether	ND		ug/kg	3800	870	20
Bis(2-chloroisopropyl)ether	ND		ug/kg	4500	1300	20
Bis(2-chloroethoxy)methane	ND		ug/kg	4100	1100	20
Hexachlorobutadiene	ND		ug/kg	3800	1100	20
Hexachlorocyclopentadiene	ND		ug/kg	11000	2400	20
Hexachloroethane	ND		ug/kg	3000	690	20
Isophorone	ND		ug/kg	3400	1000	20
Naphthalene	ND		ug/kg	3800	1200	20
Nitrobenzene	ND		ug/kg	3400	900	20
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	3000	800	20
n-Nitrosodi-n-propylamine	ND		ug/kg	3800	1100	20
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	3800	990	20
Butyl benzyl phthalate	ND		ug/kg	3800	740	20
Di-n-butylphthalate	ND		ug/kg	3800	730	20
Di-n-octylphthalate	ND		ug/kg	3800	930	20
Diethyl phthalate	ND		ug/kg	3800	800	20
Dimethyl phthalate	ND		ug/kg	3800	960	20
Benzo(a)anthracene	810	J	ug/kg	2300	740	20

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-01 D Date Collected: 02/10/14 07:45

Client ID: SB-6 (7-10) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	3000	930	20
Benzo(b)fluoranthene	1000	J	ug/kg	2300	760	20
Benzo(k)fluoranthene	ND		ug/kg	2300	720	20
Chrysene	930	J	ug/kg	2300	740	20
Acenaphthylene	ND		ug/kg	3000	710	20
Anthracene	ND		ug/kg	2300	630	20
Benzo(ghi)perylene	ND		ug/kg	3000	790	20
Fluorene	ND		ug/kg	3800	1100	20
Phenanthrene	960	J	ug/kg	2300	740	20
Dibenzo(a,h)anthracene	ND		ug/kg	2300	730	20
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	3000	840	20
Pyrene	1400	J	ug/kg	2300	740	20
Biphenyl	ND		ug/kg	8600	1200	20
4-Chloroaniline	ND		ug/kg	3800	1000	20
2-Nitroaniline	ND		ug/kg	3800	1100	20
3-Nitroaniline	ND		ug/kg	3800	1000	20
4-Nitroaniline	ND		ug/kg	3800	1000	20
Dibenzofuran	ND		ug/kg	3800	1300	20
2-Methylnaphthalene	ND		ug/kg	4500	1200	20
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	3800	1200	20
Acetophenone	ND		ug/kg	3800	1200	20
2,4,6-Trichlorophenol	ND		ug/kg	2300	710	20
P-Chloro-M-Cresol	ND		ug/kg	3800	1100	20
2-Chlorophenol	ND		ug/kg	3800	1100	20
2,4-Dichlorophenol	ND		ug/kg	3400	1200	20
2,4-Dimethylphenol	ND		ug/kg	3800	1100	20
2-Nitrophenol	ND		ug/kg	8200	1200	20
4-Nitrophenol	ND		ug/kg	5300	1200	20
2,4-Dinitrophenol	ND		ug/kg	18000	5200	20
4,6-Dinitro-o-cresol	ND		ug/kg	9800	1400	20
Pentachlorophenol	ND		ug/kg	3000	810	20
Phenol	ND		ug/kg	3800	1100	20
2-Methylphenol	ND		ug/kg	3800	1200	20
3-Methylphenol/4-Methylphenol	ND		ug/kg	5400	1200	20
2,4,5-Trichlorophenol	ND		ug/kg	3800	1200	20
Benzoic Acid	ND		ug/kg	12000	3800	20
Benzyl Alcohol	ND		ug/kg	3800	1200	20
Carbazole	ND		ug/kg	3800	810	20

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-01 D Date Collected: 02/10/14 07:45

Client ID: SB-6 (7-10) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	30-120
2,4,6-Tribromophenol	0		0-136
4-Terphenyl-d14	**0**	Q	18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-02	Date Collected:	02/10/14 09:00
Client ID:	SB-6 (30-32)	Date Received:	02/10/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/12/14 21:22
Analytical Date:	02/16/14 00:11		
Analyst:	PS		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	63.	1
1,2-Dichlorobenzene	ND		ug/kg	190	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	61.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	42.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	ND		ug/kg	120	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	ND		ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	38.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1
Benzo(a)anthracene	ND		ug/kg	120	38.	1

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-02 Date Collected: 02/10/14 09:00

Client ID: SB-6 (30-32) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	39.	1
Benzo(k)fluoranthene	ND		ug/kg	120	37.	1
Chrysene	ND		ug/kg	120	38.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	ND		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	43.	1
Pyrene	ND		ug/kg	120	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	60.	1
Acetophenone	ND		ug/kg	190	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	420	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 239 10TH AVE
Lab Number: L1403158
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-02
Client ID: SB-6 (30-32)
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 09:00
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	67		0-136
4-Terphenyl-d14	75		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-03
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/15/14 15:18
Analyst: PS

Date Collected: 02/10/14 09:15
Date Received: 02/10/14
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/13/14 09:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE
Lab Number: L1403158
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-03
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 09:15
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	81		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-03	Date Collected:	02/10/14 09:15
Client ID:	FIELD BLANK	Date Received:	02/10/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	02/13/14 09:42
Analytical Date:	02/14/14 19:11		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	0.07	J	ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	87		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-04	D	Date Collected:	02/10/14 09:55
Client ID:	SB-4 (6-8.5)		Date Received:	02/10/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	02/12/14 21:22
Analytical Date:	02/16/14 00:40			
Analyst:	PS			
Percent Solids:	86%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	3000	780	20
1,2,4-Trichlorobenzene	ND		ug/kg	3800	1200	20
Hexachlorobenzene	ND		ug/kg	2300	710	20
Bis(2-chloroethyl)ether	ND		ug/kg	3400	1100	20
2-Chloronaphthalene	ND		ug/kg	3800	1200	20
1,2-Dichlorobenzene	ND		ug/kg	3800	1200	20
1,3-Dichlorobenzene	ND		ug/kg	3800	1200	20
1,4-Dichlorobenzene	ND		ug/kg	3800	1200	20
3,3'-Dichlorobenzidine	ND		ug/kg	3800	1000	20
2,4-Dinitrotoluene	ND		ug/kg	3800	820	20
2,6-Dinitrotoluene	ND		ug/kg	3800	970	20
Fluoranthene	ND		ug/kg	2300	700	20
4-Chlorophenyl phenyl ether	ND		ug/kg	3800	1200	20
4-Bromophenyl phenyl ether	ND		ug/kg	3800	880	20
Bis(2-chloroisopropyl)ether	ND		ug/kg	4600	1300	20
Bis(2-chloroethoxy)methane	ND		ug/kg	4100	1200	20
Hexachlorobutadiene	ND		ug/kg	3800	1100	20
Hexachlorocyclopentadiene	ND		ug/kg	11000	2400	20
Hexachloroethane	ND		ug/kg	3000	690	20
Isophorone	ND		ug/kg	3400	1000	20
Naphthalene	ND		ug/kg	3800	1300	20
Nitrobenzene	ND		ug/kg	3400	910	20
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	3000	800	20
n-Nitrosodi-n-propylamine	ND		ug/kg	3800	1100	20
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	3800	1000	20
Butyl benzyl phthalate	ND		ug/kg	3800	740	20
Di-n-butylphthalate	ND		ug/kg	3800	740	20
Di-n-octylphthalate	ND		ug/kg	3800	940	20
Diethyl phthalate	ND		ug/kg	3800	800	20
Dimethyl phthalate	ND		ug/kg	3800	970	20
Benzo(a)anthracene	ND		ug/kg	2300	740	20

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-04 D Date Collected: 02/10/14 09:55

Client ID: SB-4 (6-8.5) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	3000	930	20
Benzo(b)fluoranthene	ND		ug/kg	2300	770	20
Benzo(k)fluoranthene	ND		ug/kg	2300	730	20
Chrysene	ND		ug/kg	2300	750	20
Acenaphthylene	ND		ug/kg	3000	710	20
Anthracene	ND		ug/kg	2300	630	20
Benzo(ghi)perylene	ND		ug/kg	3000	790	20
Fluorene	ND		ug/kg	3800	1100	20
Phenanthrene	ND		ug/kg	2300	740	20
Dibenzo(a,h)anthracene	ND		ug/kg	2300	740	20
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	3000	840	20
Pyrene	ND		ug/kg	2300	740	20
Biphenyl	ND		ug/kg	8700	1200	20
4-Chloroaniline	ND		ug/kg	3800	1000	20
2-Nitroaniline	ND		ug/kg	3800	1100	20
3-Nitroaniline	ND		ug/kg	3800	1000	20
4-Nitroaniline	ND		ug/kg	3800	1000	20
Dibenzofuran	ND		ug/kg	3800	1300	20
2-Methylnaphthalene	ND		ug/kg	4600	1200	20
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	3800	1200	20
Acetophenone	ND		ug/kg	3800	1200	20
2,4,6-Trichlorophenol	ND		ug/kg	2300	720	20
P-Chloro-M-Cresol	ND		ug/kg	3800	1100	20
2-Chlorophenol	ND		ug/kg	3800	1200	20
2,4-Dichlorophenol	ND		ug/kg	3400	1200	20
2,4-Dimethylphenol	ND		ug/kg	3800	1100	20
2-Nitrophenol	ND		ug/kg	8200	1200	20
4-Nitrophenol	ND		ug/kg	5300	1200	20
2,4-Dinitrophenol	ND		ug/kg	18000	5200	20
4,6-Dinitro-o-cresol	ND		ug/kg	9900	1400	20
Pentachlorophenol	ND		ug/kg	3000	810	20
Phenol	ND		ug/kg	3800	1100	20
2-Methylphenol	ND		ug/kg	3800	1200	20
3-Methylphenol/4-Methylphenol	ND		ug/kg	5500	1200	20
2,4,5-Trichlorophenol	ND		ug/kg	3800	1200	20
Benzoic Acid	ND		ug/kg	12000	3800	20
Benzyl Alcohol	ND		ug/kg	3800	1200	20
Carbazole	ND		ug/kg	3800	820	20

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-04 D Date Collected: 02/10/14 09:55

Client ID: SB-4 (6-8.5) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	30-120
2,4,6-Tribromophenol	0		0-136
4-Terphenyl-d14	**0**	Q	18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-05	Date Collected:	02/10/14 10:55
Client ID:	SB-4 (30-32)	Date Received:	02/10/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/12/14 21:22
Analytical Date:	02/15/14 14:27		
Analyst:	PS		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-05 Date Collected: 02/10/14 10:55

Client ID: SB-4 (30-32) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

Project Name: 239 10TH AVE
Lab Number: L1403158
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-05
Client ID: SB-4 (30-32)
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 10:55
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	76		0-136
4-Terphenyl-d14	70		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-06	Date Collected:	02/10/14 13:30
Client ID:	SB-7 (36-38)	Date Received:	02/10/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/12/14 21:22
Analytical Date:	02/15/14 14:52		
Analyst:	PS		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	63.	1
1,2-Dichlorobenzene	ND		ug/kg	190	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	ND		ug/kg	120	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	ND		ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	38.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1
Benzo(a)anthracene	ND		ug/kg	120	38.	1

Project Name: 239 10TH AVE **Lab Number:** L1403158

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-06 Date Collected: 02/10/14 13:30

Client ID: SB-7 (36-38) Date Received: 02/10/14

Sample Location: NEW YORK, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	39.	1
Benzo(k)fluoranthene	ND		ug/kg	120	37.	1
Chrysene	ND		ug/kg	120	38.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	ND		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	43.	1
Pyrene	ND		ug/kg	120	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	60.	1
Acetophenone	ND		ug/kg	190	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	420	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 239 10TH AVE
Lab Number: L1403158
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-06
Client ID: SB-7 (36-38)
Sample Location: NEW YORK, NY
Date Collected: 02/10/14 13:30
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	67		0-136
4-Terphenyl-d14	66		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/13/14 19:44
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/12/14 21:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-06 Batch: WG670132-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/13/14 19:44
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/12/14 21:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-06 Batch: WG670132-1					
Benzo(a)anthracene	ND		ug/kg	98	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	350	51.
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/13/14 19:44
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/12/14 21:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-06 Batch: WG670132-1					
4,6-Dinitro-o-cresol	ND		ug/kg	420	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	87		0-136
4-Terphenyl-d14	83		18-120

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/16/14 11:06
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 02/13/14 09:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG670256-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Isophorone	ND		ug/l	5.0	0.79
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39
Dimethyl phthalate	ND		ug/l	5.0	0.33
Biphenyl	ND		ug/l	2.0	0.24
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/16/14 11:06
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 02/13/14 09:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG670256-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	86		41-149

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/14/14 14:19
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/13/14 09:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03 Batch: WG670257-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/14/14 14:19
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/13/14 09:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03 Batch: WG670257-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	97		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG670132-2 WG670132-3								
Acenaphthene	79		79		31-137	0		50
1,2,4-Trichlorobenzene	81		80		38-107	1		50
Hexachlorobenzene	78		76		40-140	3		50
Bis(2-chloroethyl)ether	71		69		40-140	3		50
2-Chloronaphthalene	76		74		40-140	3		50
1,2-Dichlorobenzene	75		73		40-140	3		50
1,3-Dichlorobenzene	76		74		40-140	3		50
1,4-Dichlorobenzene	76		74		28-104	3		50
3,3'-Dichlorobenzidine	55		43		40-140	24		50
2,4-Dinitrotoluene	80		80		28-89	0		50
2,6-Dinitrotoluene	76		74		40-140	3		50
Fluoranthene	83		81		40-140	2		50
4-Chlorophenyl phenyl ether	78		77		40-140	1		50
4-Bromophenyl phenyl ether	82		78		40-140	5		50
Bis(2-chloroisopropyl)ether	68		66		40-140	3		50
Bis(2-chloroethoxy)methane	69		67		40-117	3		50
Hexachlorobutadiene	81		80		40-140	1		50
Hexachlorocyclopentadiene	78		78		40-140	0		50
Hexachloroethane	74		74		40-140	0		50
Isophorone	70		68		40-140	3		50
Naphthalene	76		74		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG670132-2 WG670132-3								
Nitrobenzene	76		75		40-140	1		50
NitrosoDiPhenylAmine(NDPA)/DPA	79		79			0		50
n-Nitrosodi-n-propylamine	72		70		32-121	3		50
Bis(2-Ethylhexyl)phthalate	86		84		40-140	2		50
Butyl benzyl phthalate	89		88		40-140	1		50
Di-n-butylphthalate	86		84		40-140	2		50
Di-n-octylphthalate	93		92		40-140	1		50
Diethyl phthalate	78		77		40-140	1		50
Dimethyl phthalate	79		79		40-140	0		50
Benzo(a)anthracene	86		83		40-140	4		50
Benzo(a)pyrene	84		79		40-140	6		50
Benzo(b)fluoranthene	83		76		40-140	9		50
Benzo(k)fluoranthene	77		77		40-140	0		50
Chrysene	81		80		40-140	1		50
Acenaphthylene	75		73		40-140	3		50
Anthracene	84		84		40-140	0		50
Benzo(ghi)perylene	94		83		40-140	12		50
Fluorene	78		77		40-140	1		50
Phenanthrene	81		79		40-140	3		50
Dibenzo(a,h)anthracene	94		86		40-140	9		50
Indeno(1,2,3-cd)Pyrene	94		84		40-140	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG670132-2 WG670132-3								
Pyrene	80		80		35-142	0		50
Biphenyl	84		84			0		50
4-Chloroaniline	64		64		40-140	0		50
2-Nitroaniline	77		75		47-134	3		50
3-Nitroaniline	48		39		26-129	21		50
4-Nitroaniline	69		70		41-125	1		50
Dibenzofuran	79		79		40-140	0		50
2-Methylnaphthalene	77		74		40-140	4		50
1,2,4,5-Tetrachlorobenzene	87		86		40-117	1		50
Acetophenone	77		75		14-144	3		50
2,4,6-Trichlorophenol	82		80		30-130	2		50
P-Chloro-M-Cresol	76		74		26-103	3		50
2-Chlorophenol	78		77		25-102	1		50
2,4-Dichlorophenol	85		83		30-130	2		50
2,4-Dimethylphenol	74		73		30-130	1		50
2-Nitrophenol	78		75		30-130	4		50
4-Nitrophenol	81		83		11-114	2		50
2,4-Dinitrophenol	69		64		4-130	8		50
4,6-Dinitro-o-cresol	80		76		10-130	5		50
Pentachlorophenol	77		75		17-109	3		50
Phenol	72		70		26-90	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG670132-2 WG670132-3								
2-Methylphenol	76		75		30-130.	1		50
3-Methylphenol/4-Methylphenol	76		72		30-130	5		50
2,4,5-Trichlorophenol	80		78		30-130	3		50
Benzoic Acid	31		33			6		50
Benzyl Alcohol	73		70		40-140	4		50
Carbazole	81		81		54-128	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	82		80		25-120
Phenol-d6	76		74		10-120
Nitrobenzene-d5	71		69		23-120
2-Fluorobiphenyl	75		73		30-120
2,4,6-Tribromophenol	92		92		0-136
4-Terphenyl-d14	80		77		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG670256-2 WG670256-3								
1,2,4-Trichlorobenzene	72		55		39-98	27		30
Bis(2-chloroethyl)ether	80		60		40-140	29		30
1,2-Dichlorobenzene	77		55		40-140	**33**	Q	30
1,3-Dichlorobenzene	76		54		40-140	**34**	Q	30
1,4-Dichlorobenzene	75		54		36-97	**33**	Q	30
3,3'-Dichlorobenzidine	55		51		40-140	8		30
2,4-Dinitrotoluene	94		82		24-96	14		30
2,6-Dinitrotoluene	99		83		40-140	18		30
4-Chlorophenyl phenyl ether	86		74		40-140	15		30
4-Bromophenyl phenyl ether	94		78		40-140	19		30
Bis(2-chloroisopropyl)ether	75		56		40-140	29		30
Bis(2-chloroethoxy)methane	89		64		40-140	**33**	Q	30
Hexachlorocyclopentadiene	**35**	Q	**29**	Q	40-140	19		30
Isophorone	89		67		40-140	28		30
Nitrobenzene	78		59		40-140	28		30
NitrosoDiPhenylAmine(NDPA)/DPA	87		76		40-140	13		30
n-Nitrosodi-n-propylamine	88		64		29-132	**32**	Q	30
Bis(2-Ethylhexyl)phthalate	88		77		40-140	13		30
Butyl benzyl phthalate	94		80		40-140	16		30
Di-n-butylphthalate	91		77		40-140	17		30
Di-n-octylphthalate	89		78		40-140	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG670256-2 WG670256-3								
Diethyl phthalate	88		77		40-140	13		30
Dimethyl phthalate	86		75		40-140	14		30
Biphenyl	84		66			24		30
4-Chloroaniline	50		46		40-140	8		30
2-Nitroaniline	101		84		52-143	18		30
3-Nitroaniline	60		51		25-145	16		30
4-Nitroaniline	91		77		51-143	17		30
Dibenzofuran	86		70		40-140	21		30
1,2,4,5-Tetrachlorobenzene	77		62		2-134	22		30
Acetophenone	97		68		39-129	**35**	Q	30
2,4,6-Trichlorophenol	99		73		30-130	30		30
P-Chloro-M-Cresol	92		74		23-97	22		30
2-Chlorophenol	84		63		27-123	29		30
2,4-Dichlorophenol	90		69		30-130	26		30
2,4-Dimethylphenol	85		53		30-130	**46**	Q	30
2-Nitrophenol	89		66		30-130	30		30
4-Nitrophenol	68		60		10-80	13		30
2,4-Dinitrophenol	94		75		20-130	22		30
4,6-Dinitro-o-cresol	93		83		20-164	11		30
Phenol	40		30		12-110	29		30
2-Methylphenol	78		56		30-130	**33**	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG670256-2 WG670256-3								
3-Methylphenol/4-Methylphenol	77		58		30-130	28		30
2,4,5-Trichlorophenol	99		79		30-130	22		30
Benzoic Acid	30		26			14		30
Benzyl Alcohol	76		60			24		30
Carbazole	95		79		55-144	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		43		21-120
Phenol-d6	39		31		10-120
Nitrobenzene-d5	86		63		23-120
2-Fluorobiphenyl	86		66		15-120
2,4,6-Tribromophenol	90		76		10-120
4-Terphenyl-d14	95		77		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG670257-2 WG670257-3								
Acenaphthene	86		80		37-111	7		40
2-Chloronaphthalene	82		76		40-140	8		40
Fluoranthene	94		86		40-140	9		40
Hexachlorobutadiene	70		68		40-140	3		40
Naphthalene	79		77		40-140	3		40
Benzo(a)anthracene	92		86		40-140	7		40
Benzo(a)pyrene	92		84		40-140	9		40
Benzo(b)fluoranthene	94		84		40-140	11		40
Benzo(k)fluoranthene	100		92		40-140	8		40
Chrysene	87		83		40-140	5		40
Acenaphthylene	92		82		40-140	11		40
Anthracene	86		80		40-140	7		40
Benzo(ghi)perylene	88		80		40-140	10		40
Fluorene	96		84		40-140	13		40
Phenanthrene	87		77		40-140	12		40
Dibenzo(a,h)anthracene	91		81		40-140	12		40
Indeno(1,2,3-cd)Pyrene	93		84		40-140	10		40
Pyrene	91		82		26-127	10		40
2-Methylnaphthalene	86		82		40-140	5		40
Pentachlorophenol	**127**	Q	**106**	Q	9-103	18		40
Hexachlorobenzene	81		75		40-140	8		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG670257-2 WG670257-3								
Hexachloroethane	78		76		40-140	3		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		54		21-120
Phenol-d6	44		41		10-120
Nitrobenzene-d5	91		90		23-120
2-Fluorobiphenyl	83		78		15-120
2,4,6-Tribromophenol	101		92		10-120
4-Terphenyl-d14	108		101		41-149

PCBS

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-01	Date Collected:	02/10/14 07:45
Client ID:	SB-6 (7-10)	Date Received:	02/10/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/12/14 00:40
Analytical Date:	02/13/14 10:42	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/12/14
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	2.86	1	A
Aroclor 1221	ND		ug/kg	36.2	3.34	1	A
Aroclor 1232	ND		ug/kg	36.2	4.25	1	A
Aroclor 1242	ND		ug/kg	36.2	4.44	1	A
Aroclor 1248	ND		ug/kg	36.2	3.06	1	A
Aroclor 1254	ND		ug/kg	36.2	2.98	1	A
Aroclor 1260	9.40	J	ug/kg	36.2	2.76	1	A
Aroclor 1262	ND		ug/kg	36.2	1.80	1	A
Aroclor 1268	ND		ug/kg	36.2	5.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-03	Date Collected:	02/10/14 09:15
Client ID:	FIELD BLANK	Date Received:	02/10/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/12/14 17:40
Analytical Date:	02/13/14 09:43	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/13/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/13/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-04	Date Collected:	02/10/14 09:55
Client ID:	SB-4 (6-8.5)	Date Received:	02/10/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/12/14 00:40
Analytical Date:	02/13/14 10:55	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/12/14
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.9	2.99	1	A
Aroclor 1221	ND		ug/kg	37.9	3.49	1	A
Aroclor 1232	ND		ug/kg	37.9	4.44	1	A
Aroclor 1242	ND		ug/kg	37.9	4.64	1	A
Aroclor 1248	ND		ug/kg	37.9	3.20	1	A
Aroclor 1254	ND		ug/kg	37.9	3.11	1	A
Aroclor 1260	12.7	J	ug/kg	37.9	2.89	1	A
Aroclor 1262	ND		ug/kg	37.9	1.88	1	A
Aroclor 1268	ND		ug/kg	37.9	5.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/13/14 13:33
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 02/12/14 00:40
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/12/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,04 Batch: WG669927-1						
Aroclor 1016	ND		ug/kg	32.4	2.56	A
Aroclor 1221	ND		ug/kg	32.4	2.98	A
Aroclor 1232	ND		ug/kg	32.4	3.79	A
Aroclor 1242	ND		ug/kg	32.4	3.96	A
Aroclor 1248	ND		ug/kg	32.4	2.73	A
Aroclor 1254	ND		ug/kg	32.4	2.66	A
Aroclor 1260	ND		ug/kg	32.4	2.47	A
Aroclor 1262	ND		ug/kg	32.4	1.60	A
Aroclor 1268	ND		ug/kg	32.4	4.69	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/13/14 09:56
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 02/12/14 17:40
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/13/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/13/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG670104-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	104		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG669927-2 WG669927-3									
Aroclor 1016	88		85		40-140	3		50	A
Aroclor 1260	60		61		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		92		30-150	A
Decachlorobiphenyl	77		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		88		30-150	B
Decachlorobiphenyl	58		56		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG670104-2 WG670104-3									
Aroclor 1016	112		109		40-140	3		50	A
Aroclor 1260	113		114		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		71		30-150	A
Decachlorobiphenyl	106		105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		73		30-150	B
Decachlorobiphenyl	104		104		30-150	B

PESTICIDES

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-01	D	Date Collected:	02/10/14 07:45
Client ID:	SB-6 (7-10)		Date Received:	02/10/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8081B		Extraction Date:	02/12/14 00:39
Analytical Date:	02/13/14 20:58		Cleanup Method1:	EPA 3620B
Analyst:	SS		Cleanup Date1:	02/12/14
Percent Solids:	87%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	35.5	6.95	20	A
Lindane	ND		ug/kg	14.8	6.61	20	A
Alpha-BHC	ND		ug/kg	14.8	4.20	20	A
Beta-BHC	ND		ug/kg	35.5	13.4	20	A
Heptachlor	ND		ug/kg	17.7	7.95	20	A
Aldrin	ND		ug/kg	35.5	12.5	20	A
Heptachlor epoxide	ND		ug/kg	66.5	20.0	20	A
Endrin	ND		ug/kg	14.8	6.06	20	A
Endrin ketone	ND		ug/kg	35.5	9.14	20	A
Dieldrin	ND		ug/kg	22.2	11.1	20	B
4,4'-DDE	ND		ug/kg	35.5	8.20	20	A
4,4'-DDD	ND		ug/kg	35.5	12.6	20	A
4,4'-DDT	ND		ug/kg	66.5	28.5	20	A
Endosulfan I	ND		ug/kg	35.5	8.38	20	A
Endosulfan II	ND		ug/kg	35.5	11.8	20	A
Endosulfan sulfate	ND		ug/kg	14.8	7.04	20	A
Methoxychlor	ND		ug/kg	66.5	20.7	20	A
Toxaphene	ND		ug/kg	665	186.	20	A
cis-Chlordane	32.3	J	ug/kg	44.3	12.4	20	B
trans-Chlordane	24.5	JPI	ug/kg	44.3	11.7	20	A
Chlordane	201	J	ug/kg	288	118.	20	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-03	Date Collected:	02/10/14 09:15
Client ID:	FIELD BLANK	Date Received:	02/10/14
Sample Location:	NEW YORK, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/11/14 17:14
Analytical Date:	02/17/14 11:30	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/13/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	122		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	141		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403158-04	D	Date Collected:	02/10/14 09:55
Client ID:	SB-4 (6-8.5)		Date Received:	02/10/14
Sample Location:	NEW YORK, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8081B		Extraction Date:	02/12/14 00:39
Analytical Date:	02/13/14 21:12		Cleanup Method1:	EPA 3620B
Analyst:	SS		Cleanup Date1:	02/12/14
Percent Solids:	86%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	35.7	6.99	20	A
Lindane	ND		ug/kg	14.9	6.64	20	A
Alpha-BHC	ND		ug/kg	14.9	4.22	20	A
Beta-BHC	ND		ug/kg	35.7	13.5	20	A
Heptachlor	ND		ug/kg	17.8	8.00	20	A
Aldrin	ND		ug/kg	35.7	12.6	20	A
Heptachlor epoxide	ND		ug/kg	66.9	20.1	20	A
Endrin	ND		ug/kg	14.9	6.09	20	A
Endrin ketone	ND		ug/kg	35.7	9.19	20	A
Dieldrin	ND		ug/kg	22.3	11.1	20	A
4,4'-DDE	ND		ug/kg	35.7	8.25	20	A
4,4'-DDD	ND		ug/kg	35.7	12.7	20	A
4,4'-DDT	ND		ug/kg	66.9	28.7	20	A
Endosulfan I	ND		ug/kg	35.7	8.43	20	A
Endosulfan II	ND		ug/kg	35.7	11.9	20	A
Endosulfan sulfate	ND		ug/kg	14.9	7.08	20	A
Methoxychlor	ND		ug/kg	66.9	20.8	20	A
Toxaphene	ND		ug/kg	669	187.	20	A
cis-Chlordane	20.6	J	ug/kg	44.6	12.4	20	A
trans-Chlordane	22.8	JPI	ug/kg	44.6	11.8	20	A
Chlordane	188	J	ug/kg	290	118.	20	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/17/14 10:50
Analyst: SH

Extraction Method: EPA 3510C
Extraction Date: 02/11/14 17:14
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/13/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG669872-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	124		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	142		30-150	B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/13/14 17:40
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 02/12/14 00:39
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04 Batch: WG669926-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.656	0.293	A
Alpha-BHC	ND		ug/kg	0.656	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.597	A
Heptachlor	ND		ug/kg	0.787	0.353	A
Aldrin	ND		ug/kg	1.57	0.554	A
Heptachlor epoxide	ND		ug/kg	2.95	0.885	A
Endrin	ND		ug/kg	0.656	0.269	A
Endrin ketone	ND		ug/kg	1.57	0.405	A
Dieldrin	ND		ug/kg	0.984	0.492	A
4,4'-DDE	ND		ug/kg	1.57	0.364	A
4,4'-DDD	ND		ug/kg	1.57	0.561	A
4,4'-DDT	ND		ug/kg	2.95	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.372	A
Endosulfan II	ND		ug/kg	1.57	0.526	A
Endosulfan sulfate	ND		ug/kg	0.656	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.918	A
Toxaphene	ND		ug/kg	29.5	8.26	A
cis-Chlordane	ND		ug/kg	1.97	0.548	A
trans-Chlordane	ND		ug/kg	1.97	0.519	A
Chlordane	ND		ug/kg	12.8	5.21	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG669872-2 WG669872-3									
Delta-BHC	77		74		30-150	4		20	A
Lindane	81		81		30-150	0		20	A
Alpha-BHC	83		83		30-150	0		20	A
Beta-BHC	75		75		30-150	0		20	A
Heptachlor	76		76		30-150	0		20	A
Aldrin	69		69		30-150	0		20	A
Heptachlor epoxide	86		87		30-150	0		20	A
Endrin	101		100		30-150	1		20	A
Endrin ketone	94		90		30-150	4		20	A
Dieldrin	92		92		30-150	0		20	A
4,4'-DDE	88		88		30-150	1		20	A
4,4'-DDD	90		90		30-150	0		20	A
4,4'-DDT	104		103		30-150	1		20	A
Endosulfan I	86		88		30-150	3		20	A
Endosulfan II	91		89		30-150	2		20	A
Endosulfan sulfate	92		88		30-150	4		20	A
Methoxychlor	99		96		30-150	3		20	A
cis-Chlordane	85		86		30-150	2		20	A
trans-Chlordane	84		82		30-150	2		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG669872-2 WG669872-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		68		30-150	A
Decachlorobiphenyl	106		122		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		64		30-150	B
Decachlorobiphenyl	125		140		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG669926-2 WG669926-3									
Delta-BHC	81		98		30-150	19		30	A
Lindane	82		99		30-150	19		30	A
Alpha-BHC	88		106		30-150	19		30	A
Beta-BHC	75		91		30-150	19		30	A
Heptachlor	81		97		30-150	18		30	A
Aldrin	97		115		30-150	17		30	A
Heptachlor epoxide	88		106		30-150	19		30	A
Endrin	98		119		30-150	19		30	A
Endrin ketone	67		86		30-150	25		30	A
Dieldrin	93		114		30-150	20		30	A
4,4'-DDE	102		121		30-150	17		30	A
4,4'-DDD	88		105		30-150	18		30	A
4,4'-DDT	89		105		30-150	16		30	A
Endosulfan I	90		110		30-150	20		30	A
Endosulfan II	83		104		30-150	22		30	A
Endosulfan sulfate	72		91		30-150	23		30	A
Methoxychlor	75		94		30-150	22		30	A
cis-Chlordane	92		110		30-150	18		30	A
trans-Chlordane	91		109		30-150	18		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG669926-2 WG669926-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		79		30-150	A
Decachlorobiphenyl	86		98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		70		30-150	B
Decachlorobiphenyl	83		94		30-150	B

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG669926-4 WG669926-5 QC Sample: L1403105-18 Client ID: MS Sample													
Delta-BHC	ND	40.7	41.8	103		31.6	79		30-150	28		50	A
Lindane	ND	40.7	41.5	102		31.4	79		30-150	28		50	A
Alpha-BHC	ND	40.7	44.3	109		31.9	80		30-150	33		50	A
Beta-BHC	ND	40.7	38.5	95		29.1	73		30-150	28		50	A
Heptachlor	ND	40.7	40.1	99		30.8	77		30-150	26		50	A
Aldrin	ND	40.7	47.4	117		35.9	90		30-150	28		50	A
Heptachlor epoxide	ND	40.7	43.6	107		33.5	84		30-150	26		50	A
Endrin	ND	40.7	48.5	119		37.7	95		30-150	25		50	A
Endrin ketone	ND	40.7	34.9	86		28.0	70		30-150	22		50	A
Dieldrin	ND	40.7	46.2	114		36.2	91		30-150	24		50	A
4,4'-DDE	ND	40.7	49.0	121		37.5	94		30-150	27		50	A
4,4'-DDD	ND	40.7	43.0	106		33.7	85		30-150	24		50	A
4,4'-DDT	ND	40.7	43.1	106		33.8	85		30-150	24		50	A
Endosulfan I	ND	40.7	45.1	111		34.7	87		30-150	26		50	A
Endosulfan II	ND	40.7	42.4	104		33.4	84		30-150	24		50	A
Endosulfan sulfate	ND	40.7	37.5	92		30.4	76		30-150	21		50	A
Methoxychlor	ND	40.7	37.6	93		30.0	75		30-150	22		50	A
cis-Chlordane	ND	40.7	44.6	110		34.9	88		30-150	24		50	A
trans-Chlordane	ND	40.7	45.1	111		34.6	87		30-150	26		50	A

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG669926-4 WG669926-5 QC Sample: L1403105-18 Client ID: MS Sample												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		62		30-150	A
Decachlorobiphenyl	95		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		52		30-150	B
Decachlorobiphenyl	88		69		30-150	B

METALS

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-01
Client ID: SB-6 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 02/10/14 07:45
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5700		mg/kg	8.8	1.8	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.4	0.70	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Arsenic, Total	2.6		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Barium, Total	33		mg/kg	0.88	0.26	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Beryllium, Total	0.23	J	mg/kg	0.44	0.09	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Cadmium, Total	0.58	J	mg/kg	0.88	0.06	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Calcium, Total	27000		mg/kg	8.8	2.6	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Chromium, Total	11		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Cobalt, Total	3.2		mg/kg	1.8	0.44	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Copper, Total	29		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Iron, Total	8300		mg/kg	4.4	1.8	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Lead, Total	46		mg/kg	4.4	0.18	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Magnesium, Total	4500		mg/kg	8.8	0.88	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Manganese, Total	140		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Mercury, Total	0.10		mg/kg	0.08	0.02	1	02/13/14 07:21	02/13/14 14:00	EPA 7471B	1,7471B	MC
Nickel, Total	7.1		mg/kg	2.2	0.35	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Potassium, Total	760		mg/kg	220	35.	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.26	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.88	0.18	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Sodium, Total	570		mg/kg	180	26.	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.35	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Vanadium, Total	18		mg/kg	0.88	0.09	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH
Zinc, Total	89		mg/kg	4.4	0.62	2	02/11/14 12:03	02/12/14 16:12	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-02
Client ID: SB-6 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 02/10/14 09:00
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2200		mg/kg	9.3	1.8	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.6	0.74	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.93	0.18	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Barium, Total	21		mg/kg	0.93	0.28	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Beryllium, Total	0.18	J	mg/kg	0.46	0.09	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Cadmium, Total	0.29	J	mg/kg	0.93	0.07	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Calcium, Total	580		mg/kg	9.3	2.8	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Chromium, Total	7.1		mg/kg	0.93	0.18	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Cobalt, Total	2.3		mg/kg	1.8	0.46	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Copper, Total	5.9		mg/kg	0.93	0.18	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Iron, Total	5900		mg/kg	4.6	1.8	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Lead, Total	2.9	J	mg/kg	4.6	0.18	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Magnesium, Total	1100		mg/kg	9.3	0.93	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Manganese, Total	150		mg/kg	0.93	0.18	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/13/14 07:21	02/13/14 14:02	EPA 7471B	1,7471B	MC
Nickel, Total	8.0		mg/kg	2.3	0.37	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Potassium, Total	520		mg/kg	230	37.	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.28	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.93	0.18	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Sodium, Total	110	J	mg/kg	180	28.	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.37	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Vanadium, Total	7.2		mg/kg	0.93	0.09	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH
Zinc, Total	8.7		mg/kg	4.6	0.65	2	02/11/14 12:03	02/12/14 16:16	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-03
Client ID: FIELD BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/10/14 09:15
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.00216	J	mg/l	0.0100	0.00200	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Antimony, Total	0.00049	J	mg/l	0.00100	0.00010	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00030	J	mg/l	0.00050	0.00020	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Barium, Total	0.00018	J	mg/l	0.00100	0.00010	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Calcium, Total	ND		mg/l	0.100	0.0320	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Chromium, Total	0.00049	J	mg/l	0.00100	0.00020	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Copper, Total	0.00018	J	mg/l	0.00100	0.00010	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Iron, Total	0.0207	J	mg/l	0.0500	0.0130	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Manganese, Total	0.00031	J	mg/l	0.00050	0.00010	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/11/14 08:59	02/11/14 12:25	EPA 7470A	1,7470A	AK
Nickel, Total	0.00027	J	mg/l	0.00050	0.00010	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Selenium, Total	0.00046	J	mg/l	0.00500	0.00030	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Sodium, Total	0.138	J	mg/l	0.200	0.0150	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Thallium, Total	0.00005	J	mg/l	0.00050	0.00003	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM
Zinc, Total	0.00146	J	mg/l	0.01000	0.00120	1	02/11/14 08:47	02/12/14 00:09	EPA 3005A	1,6020A	BM

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-04
Client ID: SB-4 (6-8.5)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 86%

Date Collected: 02/10/14 09:55
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2700		mg/kg	9.1	1.8	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.6	0.73	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Arsenic, Total	0.49	J	mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Barium, Total	24		mg/kg	0.91	0.27	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Beryllium, Total	0.17	J	mg/kg	0.46	0.09	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Cadmium, Total	0.31	J	mg/kg	0.91	0.06	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Calcium, Total	630		mg/kg	9.1	2.7	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Chromium, Total	7.0		mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Cobalt, Total	2.6		mg/kg	1.8	0.46	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Copper, Total	7.1		mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Iron, Total	6100		mg/kg	4.6	1.8	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Lead, Total	2.5	J	mg/kg	4.6	0.18	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Magnesium, Total	1200		mg/kg	9.1	0.91	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Manganese, Total	210		mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Mercury, Total	0.09		mg/kg	0.08	0.02	1	02/13/14 07:21	02/13/14 14:04	EPA 7471B	1,7471B	MC
Nickel, Total	8.9		mg/kg	2.3	0.36	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Potassium, Total	630		mg/kg	230	36.	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.27	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.91	0.18	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Sodium, Total	120	J	mg/kg	180	27.	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Vanadium, Total	7.7		mg/kg	0.91	0.09	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH
Zinc, Total	11		mg/kg	4.6	0.64	2	02/11/14 12:03	02/12/14 16:20	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-05
Client ID: SB-4 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 86%

Date Collected: 02/10/14 10:55
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3400		mg/kg	9.0	1.8	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.5	0.72	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Arsenic, Total	1.9		mg/kg	0.90	0.18	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Barium, Total	23		mg/kg	0.90	0.27	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Beryllium, Total	0.14	J	mg/kg	0.45	0.09	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Cadmium, Total	0.44	J	mg/kg	0.90	0.06	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Calcium, Total	23000		mg/kg	9.0	2.7	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Chromium, Total	7.7		mg/kg	0.90	0.18	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Cobalt, Total	1.8		mg/kg	1.8	0.45	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Copper, Total	17		mg/kg	0.90	0.18	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Iron, Total	5800		mg/kg	4.5	1.8	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Lead, Total	26		mg/kg	4.5	0.18	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Magnesium, Total	2400		mg/kg	9.0	0.90	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Manganese, Total	110		mg/kg	0.90	0.18	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.09	0.02	1	02/13/14 07:21	02/13/14 14:10	EPA 7471B	1,7471B	MC
Nickel, Total	4.4		mg/kg	2.2	0.36	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Potassium, Total	500		mg/kg	220	36.	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.27	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.90	0.18	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Sodium, Total	350		mg/kg	180	27.	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Vanadium, Total	10		mg/kg	0.90	0.09	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH
Zinc, Total	58		mg/kg	4.5	0.63	2	02/11/14 12:03	02/12/14 16:24	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-06
Client ID: SB-7 (36-38)
Sample Location: NEW YORK, NY
Matrix: Soil
Percent Solids: 86%

Date Collected: 02/10/14 13:30
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2400		mg/kg	8.9	1.8	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.5	0.71	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Arsenic, Total	0.23	J	mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Barium, Total	26		mg/kg	0.89	0.27	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Beryllium, Total	0.16	J	mg/kg	0.45	0.09	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Cadmium, Total	0.33	J	mg/kg	0.89	0.06	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Calcium, Total	830		mg/kg	8.9	2.7	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Chromium, Total	7.4		mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Cobalt, Total	2.8		mg/kg	1.8	0.45	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Copper, Total	7.5		mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Iron, Total	6400		mg/kg	4.5	1.8	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Lead, Total	2.5	J	mg/kg	4.5	0.18	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Magnesium, Total	1500		mg/kg	8.9	0.89	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Manganese, Total	170		mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.09	0.02	1	02/13/14 07:21	02/13/14 14:11	EPA 7471B	1,7471B	MC
Nickel, Total	9.5		mg/kg	2.2	0.36	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Potassium, Total	560		mg/kg	220	36.	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.27	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.89	0.18	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Sodium, Total	210		mg/kg	180	27.	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Vanadium, Total	10		mg/kg	0.89	0.09	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH
Zinc, Total	10		mg/kg	4.5	0.62	2	02/11/14 12:03	02/12/14 16:27	EPA 3050B	1,6010C	JH

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 03 Batch: WG669710-1										
Aluminum, Total	0.00210	J	mg/l	0.0100	0.00200	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Antimony, Total	0.00025	J	mg/l	0.00100	0.00010	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Barium, Total	0.00078	J	mg/l	0.00100	0.00010	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Calcium, Total	0.0710	J	mg/l	0.100	0.0320	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Chromium, Total	0.00038	J	mg/l	0.00100	0.00020	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Cobalt, Total	0.00022	J	mg/l	0.00050	0.00010	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Copper, Total	0.00023	J	mg/l	0.00100	0.00010	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Manganese, Total	0.00031	J	mg/l	0.00050	0.00010	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Nickel, Total	0.00037	J	mg/l	0.00050	0.00010	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Sodium, Total	0.0568	J	mg/l	0.200	0.0150	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Vanadium, Total	0.00016	J	mg/l	0.00500	0.00010	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM
Zinc, Total	0.00177	J	mg/l	0.01000	0.00120	1	02/11/14 08:47	02/12/14 00:46	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 03 Batch: WG669724-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/11/14 08:59	02/11/14 12:00	1,7470A	AK

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02,04-06 Batch: WG669777-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Antimony, Total	0.51	J	mg/kg	2.0	0.32	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Calcium, Total	ND		mg/kg	4.0	1.2	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Iron, Total	ND		mg/kg	2.0	0.80	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Thallium, Total	ND		mg/kg	0.80	0.16	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	02/11/14 12:03	02/12/14 14:05	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403158
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02,04-06 Batch: WG670082-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/13/14 07:21	02/13/14 13:51	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 Batch: WG669710-2								
Aluminum, Total	108		-		80-120	-		
Antimony, Total	92		-		80-120	-		
Arsenic, Total	104		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	98		-		80-120	-		
Cadmium, Total	100		-		80-120	-		
Calcium, Total	107		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	106		-		80-120	-		
Copper, Total	109		-		80-120	-		
Iron, Total	120		-		80-120	-		
Lead, Total	99		-		80-120	-		
Magnesium, Total	109		-		80-120	-		
Manganese, Total	102		-		80-120	-		
Nickel, Total	107		-		80-120	-		
Potassium, Total	106		-		80-120	-		
Selenium, Total	103		-		80-120	-		
Silver, Total	95		-		80-120	-		
Sodium, Total	111		-		80-120	-		
Thallium, Total	93		-		80-120	-		
Vanadium, Total	100		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 Batch: WG669710-2					
Zinc, Total	106	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 03 Batch: WG669724-2					
Mercury, Total	105	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG669777-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	78	-	29-171	-	
Antimony, Total	117	-	4-196	-	
Arsenic, Total	100	-	81-119	-	
Barium, Total	92	-	83-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	94	-	82-117	-	
Calcium, Total	90	-	83-117	-	
Chromium, Total	92	-	80-119	-	
Cobalt, Total	92	-	83-117	-	
Copper, Total	92	-	83-117	-	
Iron, Total	101	-	51-150	-	
Lead, Total	90	-	80-120	-	
Magnesium, Total	78	-	74-126	-	
Manganese, Total	95	-	83-117	-	
Nickel, Total	94	-	82-117	-	
Potassium, Total	99	-	74-126	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	102	-	66-134	-	
Sodium, Total	98	-	74-127	-	
Thallium, Total	91	-	79-120	-	
Vanadium, Total	89	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403158

Report Date: 02/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG669777-2 SRM Lot Number: 0518-10-02					
Zinc, Total	97	-	82-119	-	
Total Metals - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG670082-2 SRM Lot Number: 0518-10-02					
Mercury, Total	111	-	67-133	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG669710-4 QC Sample: L1403158-03 Client ID: FIELD BLANK												
Aluminum, Total	0.00216J	2	2.17	108		-	-		75-125	-		20
Antimony, Total	0.00049J	0.5	0.4554	91		-	-		75-125	-		20
Arsenic, Total	0.00030J	0.12	0.1245	104		-	-		75-125	-		20
Barium, Total	0.00018J	2	1.969	98		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.04908	98		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.05158	101		-	-		75-125	-		20
Calcium, Total	ND	10	10.8	108		-	-		75-125	-		20
Chromium, Total	0.00049J	0.2	0.2019	101		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.5360	107		-	-		75-125	-		20
Copper, Total	0.00018J	0.25	0.2752	110		-	-		75-125	-		20
Iron, Total	0.0207J	1	1.25	125		-	-		75-125	-		20
Lead, Total	ND	0.51	0.5109	100		-	-		75-125	-		20
Magnesium, Total	ND	10	11.0	110		-	-		75-125	-		20
Manganese, Total	0.00031J	0.5	0.5114	102		-	-		75-125	-		20
Nickel, Total	0.00027J	0.5	0.5442	109		-	-		75-125	-		20
Potassium, Total	ND	10	10.7	107		-	-		75-125	-		20
Selenium, Total	0.00046J	0.12	0.130	108		-	-		75-125	-		20
Silver, Total	ND	0.05	0.04798	96		-	-		75-125	-		20
Sodium, Total	0.138J	10	11.0	110		-	-		75-125	-		20
Thallium, Total	0.00005J	0.12	0.1132	94		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.5055	101		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG669710-4 QC Sample: L1403158-03 Client ID: FIELD BLANK									
Zinc, Total	0.00146J	0.5	0.5339	107	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG669724-4 QC Sample: L1403133-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00582	116	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-06 QC Batch ID: WG669777-4 QC Sample: L1403053-01 Client ID: MS Sample										
Aluminum, Total	5000	308	5900	**292**	Q	-	-	75-125	-	35
Antimony, Total	1.6J	76.9	72	94		-	-	75-125	-	35
Arsenic, Total	18.	18.4	29	**60**	Q	-	-	75-125	-	35
Barium, Total	140	308	460	104		-	-	75-125	-	35
Beryllium, Total	0.20J	7.69	7.8	101		-	-	75-125	-	35
Cadmium, Total	22.	7.84	30	102		-	-	75-125	-	35
Calcium, Total	12000	1540	16000	**260**	Q	-	-	75-125	-	35
Chromium, Total	41.	30.8	66	81		-	-	75-125	-	35
Cobalt, Total	25.	76.9	93	88		-	-	75-125	-	35
Copper, Total	710	38.4	760	**130**	Q	-	-	75-125	-	35
Iron, Total	39000	154	38000	**0**	Q	-	-	75-125	-	35
Lead, Total	920	78.4	970	**64**	Q	-	-	75-125	-	35
Magnesium, Total	1000	1540	2300	84		-	-	75-125	-	35
Manganese, Total	540	76.9	680	**182**	Q	-	-	75-125	-	35
Nickel, Total	42.	76.9	110	88		-	-	75-125	-	35
Potassium, Total	930	1540	2600	108		-	-	75-125	-	35
Selenium, Total	1.3J	18.4	19	103		-	-	75-125	-	35
Silver, Total	0.45J	46.1	46	100		-	-	75-125	-	35
Sodium, Total	330	1540	2000	108		-	-	75-125	-	35
Thallium, Total	ND	18.4	14	76		-	-	75-125	-	35
Vanadium, Total	43.	76.9	120	100		-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-06 QC Batch ID: WG669777-4 QC Sample: L1403053-01 Client ID: MS Sample										
Zinc, Total	2800	76.9	2900	**130**	Q	-	-	75-125	-	35
Total Metals - Westborough Lab Associated sample(s): 01-02,04-06 QC Batch ID: WG670082-4 QC Sample: L1403282-03 Client ID: MS Sample										
Mercury, Total	0.09	0.188	0.31	116		-	-	80-120	-	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG669710-3 QC Sample: L1403158-03 Client ID: FIELD BLANK						
Aluminum, Total	0.00216J	0.00201J	mg/l	NC		20
Antimony, Total	0.00049J	0.00019J	mg/l	NC		20
Arsenic, Total	0.00030J	0.00022J	mg/l	NC		20
Barium, Total	0.00018J	0.00015J	mg/l	NC		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00049J	0.00049J	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	0.00018J	0.00016J	mg/l	NC		20
Iron, Total	0.0207J	0.0179J	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.00031J	0.00014J	mg/l	NC		20
Nickel, Total	0.00027J	0.00019J	mg/l	NC		20
Potassium, Total	ND	ND	mg/l	NC		20
Selenium, Total	0.00046J	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	0.138J	0.0716J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG669710-3 QC Sample: L1403158-03 Client ID: FIELD BLANK						
Thallium, Total	0.00005J	ND	mg/l	NC		20
Vanadium, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.00146J	0.00135J	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG669724-3 QC Sample: L1403133-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-02,04-06 QC Batch ID: WG669777-3 QC Sample: L1403053-01 Client ID: DUP Sample						
Arsenic, Total	18.	31	mg/kg	**53**	Q	35
Barium, Total	140	170	mg/kg	19		35
Beryllium, Total	0.20J	0.20J	mg/kg	NC		35
Cadmium, Total	22.	23	mg/kg	4		35
Chromium, Total	41.	41	mg/kg	0		35
Copper, Total	710	750	mg/kg	5		35
Lead, Total	920	920	mg/kg	0		35
Nickel, Total	42.	41	mg/kg	2		35
Selenium, Total	1.3J	ND	mg/kg	NC		35
Silver, Total	0.45J	0.63J	mg/kg	NC		35
Total Metals - Westborough Lab Associated sample(s): 01-02,04-06 QC Batch ID: WG670082-3 QC Sample: L1403282-03 Client ID: DUP Sample						
Mercury, Total	0.09	0.12	mg/kg	26		35

INORGANICS
&
MISCELLANEOUS

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-01
Client ID: SB-6 (7-10)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/10/14 07:45
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	02/11/14 16:56	30,2540G	SB

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-02
Client ID: SB-6 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/10/14 09:00
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	02/11/14 16:56	30,2540G	SB

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-04
Client ID: SB-4 (6-8.5)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/10/14 09:55
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	02/11/14 16:56	30,2540G	SB

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-05
Client ID: SB-4 (30-32)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/10/14 10:55
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	02/11/14 16:56	30,2540G	SB

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403158-06
Client ID: SB-7 (36-38)
Sample Location: NEW YORK, NY
Matrix: Soil

Date Collected: 02/10/14 13:30
Date Received: 02/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	02/11/14 19:47	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-05 QC Batch ID: WG669867-1 QC Sample: L1403152-01 Client ID: DUP Sample						
Solids, Total	90.6	88.0	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG669901-1 QC Sample: L1403152-16 Client ID: DUP Sample						
Solids, Total	88.8	88.3	%	1		20

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 02/10/2014 23:58

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403158-01A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-01B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-01C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-01D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)
L1403158-01E	Amber 120ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403158-01F	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403158-01X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-01Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-01Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-02A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-02B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-02C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403158-02D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)
L1403158-02E	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403158-02X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-02Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-02Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-03A	Vial HCl preserved	B	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1403158-03B	Vial HCl preserved	B	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1403158-03C	Vial HCl preserved	B	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1403158-03D	Plastic 500ml HNO3 preserved	B	<2	4.5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1403158-03E	Amber 500ml unpreserved	B	7	4.5	Y	Absent	NYTCL-8081(7)
L1403158-03F	Amber 500ml unpreserved	B	7	4.5	Y	Absent	NYTCL-8081(7)
L1403158-03G	Amber 1000ml unpreserved	B	7	4.5	Y	Absent	NYTCL-8082-1200ML(7)
L1403158-03H	Amber 1000ml unpreserved	B	7	4.5	Y	Absent	NYTCL-8082-1200ML(7)
L1403158-03I	Amber 1000ml unpreserved	B	7	4.5	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403158-03J	Amber 1000ml unpreserved	B	7	4.5	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403158-04A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-04B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-04C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-04D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403158-04E	Amber 120ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403158-04F	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403158-04X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-04Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-04Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-05A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-05B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-05C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-05D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)
L1403158-05E	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403158-05X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-05Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-05Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-06A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-06B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1403158-06C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403158
Report Date: 02/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403158-06D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)
L1403158-06E	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1403158-06X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-06Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-06Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1403158-07A	Vial HCl preserved	B	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1403158-07B	Vial HCl preserved	B	N/A	4.5	Y	Absent	NYTCL-8260(14)

Container Comments

L1403158-03D

L1403158-03G

*Values in parentheses indicate holding time in days

Project Name:	239 10TH AVE	**Lab Number:**	L1403158
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE	**Lab Number:**	L1403158
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE	**Lab Number:**	L1403158
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 2/10/14

ALPHA Job #: L1403158

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Roux Associates Inc
Address: 209 Shafter St
Islandia NY
Phone: 631-232-2600
Fax: 631-232-9898
Email: WSHEN@RouxINC.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 239 10th Ave
Project Location: New York, NY
Project #: 2355.0001Y000
Project Manager: Wendy Shen
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 2/17/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
CatB Deliverable (VD samples - OER)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	TAL Metals	TCL Pests	PCBs	Sample Specific Comments
03158.01	SB-6 (7-10)	2/10/14	0745	S	JW	X	X	X	X	X	
.02	SB-6 (30-32)	2/10/14	0906	S	JW	X	X	X			
.03	FIELD BLANK	2/10/14	0915	Aq	JC	X	X	X	X	X	
.04	SB-4 (~~[illegible]~~)(6-8.5)@	2/10/14	0955	S	JW	X	X	X	X	X	
.05	SB-4 (30-32)	2/10/14	1055	S	JW	X	X	X	~~X~~	~~X~~	ONLY TCL VOC, TCL SVOC and TAL METALS
.06	SB-7 (36-38)	2/10/14	1330	S	JW	X	X	X			
.07	TRIP BLANK	2/10/14	-	TB	LAB	X					

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do (Please specify below)

TOTAL # BOTTLES

Container Type	V	G	G	G	G
Preservative	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	2/10/14 1330		2/10/14 1350
	2-10-14 1721		2-10-14 1722
	2-10-14 23:05		2/10/14 23:05

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

APPENDIX G

Laboratory Data Deliverables for Groundwater Analytical Data

ANALYTICAL REPORT

Lab Number:	L1325592
Client:	Roux Associates, Inc. 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Wendy Shen
Phone:	(631) 232-2600
Project Name:	239 10TH AVE
Project Number:	Not Specified
Report Date:	12/23/13

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1325592-01	MW-1	Not Specified	12/16/13 13:25
L1325592-02	MW-4	Not Specified	12/16/13 11:25
L1325592-03	MW-5	Not Specified	12/16/13 10:20
L1325592-04	MW-6	Not Specified	12/16/13 12:45
L1325592-05	MW-9	Not Specified	12/16/13 11:35
L1325592-06	MW-10	Not Specified	12/16/13 10:35
L1325592-07	FB121613	Not Specified	12/16/13 13:05
L1325592-08	TRIP BLANK	Not Specified	12/16/13 00:00
L1325592-09	DUP121613	Not Specified	12/16/13 11:25
L1325592-10	DUP-1-121613	Not Specified	12/16/13 10:40

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1325592-04 has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 12/23/13

ORGANICS

VOLATILES

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-01
Client ID: MW-1
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/19/13 16:58
Analyst: MS

Date Collected: 12/16/13 13:25
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	69		ug/l	0.50	0.16	1
Toluene	9.6		ug/l	2.5	0.70	1
Ethylbenzene	1.7	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-01
Client ID: MW-1
Sample Location: Not Specified
Date Collected: 12/16/13 13:25
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	1.5	J	ug/l	2.5	0.70	1
p/m-Xylene	3.0		ug/l	2.5	0.70	1
o-Xylene	1.5	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	2.5	J	ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	7.1		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	6.4		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	16		ug/l	2.5	0.70	1
n-Propylbenzene	11		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	0.82	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1325592
Project Number: Not Specified
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-01
Client ID: MW-1
Sample Location: Not Specified
Date Collected: 12/16/13 13:25
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	1.3	J	ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	101		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-02
Client ID: MW-4
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/19/13 17:25
Analyst: MS

Date Collected: 12/16/13 11:25
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.42	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE **Lab Number:** L1325592

Project Number: Not Specified **Report Date:** 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-02 Date Collected: 12/16/13 11:25

Client ID: MW-4 Date Received: 12/17/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.5	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1325592
Project Number: Not Specified
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-02
Client ID: MW-4
Sample Location: Not Specified
Date Collected: 12/16/13 11:25
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	105		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID:	L1325592-03	D	Date Collected:	12/16/13 10:20
Client ID:	MW-5		Date Received:	12/17/13
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	1,8260C			
Analytical Date:	12/19/13 17:52			
Analyst:	MS			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	62	18.	25
1,1-Dichloroethane	ND		ug/l	62	18.	25
Chloroform	ND		ug/l	62	18.	25
Carbon tetrachloride	ND		ug/l	12	3.4	25
1,2-Dichloropropane	ND		ug/l	25	3.3	25
Dibromochloromethane	ND		ug/l	12	3.7	25
1,1,2-Trichloroethane	ND		ug/l	38	12.	25
Tetrachloroethene	ND		ug/l	12	4.5	25
Chlorobenzene	ND		ug/l	62	18.	25
Trichlorofluoromethane	ND		ug/l	62	18.	25
1,2-Dichloroethane	ND		ug/l	12	3.3	25
1,1,1-Trichloroethane	ND		ug/l	62	18.	25
Bromodichloromethane	ND		ug/l	12	4.8	25
trans-1,3-Dichloropropene	ND		ug/l	12	4.1	25
cis-1,3-Dichloropropene	ND		ug/l	12	3.6	25
1,1-Dichloropropene	ND		ug/l	62	18.	25
Bromoform	ND		ug/l	50	16.	25
1,1,2,2-Tetrachloroethane	ND		ug/l	12	3.6	25
Benzene	380		ug/l	12	4.0	25
Toluene	29	J	ug/l	62	18.	25
Ethylbenzene	1400		ug/l	62	18.	25
Chloromethane	ND		ug/l	62	18.	25
Bromomethane	ND		ug/l	62	18.	25
Vinyl chloride	ND		ug/l	25	8.2	25
Chloroethane	ND		ug/l	62	18.	25
1,1-Dichloroethene	ND		ug/l	12	3.5	25
trans-1,2-Dichloroethene	ND		ug/l	62	18.	25
Trichloroethene	ND		ug/l	12	4.4	25
1,2-Dichlorobenzene	ND		ug/l	62	18.	25
1,3-Dichlorobenzene	ND		ug/l	62	18.	25
1,4-Dichlorobenzene	ND		ug/l	62	18.	25

Project Name: 239 10TH AVE **Lab Number:** L1325592

Project Number: Not Specified **Report Date:** 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-03 D Date Collected: 12/16/13 10:20

Client ID: MW-5 Date Received: 12/17/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	62	18.	25
p/m-Xylene	720		ug/l	62	18.	25
o-Xylene	62		ug/l	62	18.	25
cis-1,2-Dichloroethene	ND		ug/l	62	18.	25
Dibromomethane	ND		ug/l	120	25.	25
1,2,3-Trichloropropane	ND		ug/l	62	18.	25
Acrylonitrile	ND		ug/l	120	38.	25
tert-Butyl Alcohol	ND		ug/l	250	30.	25
Styrene	ND		ug/l	62	18.	25
Dichlorodifluoromethane	ND		ug/l	120	25.	25
Acetone	41	J	ug/l	120	25.	25
Carbon disulfide	ND		ug/l	120	25.	25
2-Butanone	ND		ug/l	120	25.	25
Vinyl acetate	ND		ug/l	120	25.	25
4-Methyl-2-pentanone	ND		ug/l	120	25.	25
2-Hexanone	ND		ug/l	120	25.	25
Bromochloromethane	ND		ug/l	62	18.	25
2,2-Dichloropropane	ND		ug/l	62	18.	25
1,2-Dibromoethane	ND		ug/l	50	16.	25
1,3-Dichloropropane	ND		ug/l	62	18.	25
1,1,1,2-Tetrachloroethane	ND		ug/l	62	18.	25
Bromobenzene	ND		ug/l	62	18.	25
n-Butylbenzene	20	J	ug/l	62	18.	25
sec-Butylbenzene	ND		ug/l	62	18.	25
tert-Butylbenzene	ND		ug/l	62	18.	25
o-Chlorotoluene	ND		ug/l	62	18.	25
p-Chlorotoluene	ND		ug/l	62	18.	25
1,2-Dibromo-3-chloropropane	ND		ug/l	62	18.	25
Hexachlorobutadiene	ND		ug/l	62	18.	25
Isopropylbenzene	88		ug/l	62	18.	25
p-Isopropyltoluene	ND		ug/l	62	18.	25
Naphthalene	650		ug/l	62	18.	25
n-Propylbenzene	200		ug/l	62	18.	25
1,2,3-Trichlorobenzene	ND		ug/l	62	18.	25
1,2,4-Trichlorobenzene	ND		ug/l	62	18.	25
1,3,5-Trimethylbenzene	450		ug/l	62	18.	25
1,2,4-Trimethylbenzene	1800		ug/l	62	18.	25
1,4-Dioxane	ND		ug/l	6200	1000	25
1,4-Diethylbenzene	180		ug/l	50	18.	25

Project Name: 239 10TH AVE **Lab Number:** L1325592

Project Number: Not Specified **Report Date:** 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-03 D Date Collected: 12/16/13 10:20

Client ID: MW-5 Date Received: 12/17/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	340		ug/l	50	18.	25
1,2,4,5-Tetramethylbenzene	110		ug/l	50	16.	25
Ethyl ether	ND		ug/l	62	18.	25
trans-1,4-Dichloro-2-butene	ND		ug/l	62	18.	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	101		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-04 D
Client ID: MW-6
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/19/13 18:20
Analyst: MS

Date Collected: 12/16/13 12:45
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.66	5
Dibromochloromethane	ND		ug/l	2.5	0.75	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	ND		ug/l	2.5	0.91	5
Chlorobenzene	ND		ug/l	12	3.5	5
Trichlorofluoromethane	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
1,1-Dichloropropene	ND		ug/l	12	3.5	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.72	5
Benzene	44		ug/l	2.5	0.79	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	4.6	J	ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	ND		ug/l	5.0	1.6	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	ND		ug/l	2.5	0.71	5
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Trichloroethene	ND		ug/l	2.5	0.87	5
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5

Project Name: 239 10TH AVE **Lab Number:** L1325592

Project Number: Not Specified **Report Date:** 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-04 D Date Collected: 12/16/13 12:45

Client ID: MW-6 Date Received: 12/17/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5
cis-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Dibromomethane	ND		ug/l	25	5.0	5
1,2,3-Trichloropropane	ND		ug/l	12	3.5	5
Acrylonitrile	ND		ug/l	25	7.5	5
tert-Butyl Alcohol	ND		ug/l	50	6.0	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	ND		ug/l	25	5.0	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	5.0	5
Vinyl acetate	ND		ug/l	25	5.0	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
Bromochloromethane	ND		ug/l	12	3.5	5
2,2-Dichloropropane	ND		ug/l	12	3.5	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
1,3-Dichloropropane	ND		ug/l	12	3.5	5
1,1,1,2-Tetrachloroethane	ND		ug/l	12	3.5	5
Bromobenzene	ND		ug/l	12	3.5	5
n-Butylbenzene	6.8	J	ug/l	12	3.5	5
sec-Butylbenzene	7.7	J	ug/l	12	3.5	5
tert-Butylbenzene	ND		ug/l	12	3.5	5
o-Chlorotoluene	ND		ug/l	12	3.5	5
p-Chlorotoluene	ND		ug/l	12	3.5	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Hexachlorobutadiene	ND		ug/l	12	3.5	5
Isopropylbenzene	37		ug/l	12	3.5	5
p-Isopropyltoluene	ND		ug/l	12	3.5	5
Naphthalene	19		ug/l	12	3.5	5
n-Propylbenzene	110		ug/l	12	3.5	5
1,2,3-Trichlorobenzene	ND		ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
1,3,5-Trimethylbenzene	3.8	J	ug/l	12	3.5	5
1,2,4-Trimethylbenzene	7.6	J	ug/l	12	3.5	5
1,4-Dioxane	ND		ug/l	1200	200	5
1,4-Diethylbenzene	17		ug/l	10	3.5	5

Project Name: 239 10TH AVE **Lab Number:** L1325592

Project Number: Not Specified **Report Date:** 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-04 D Date Collected: 12/16/13 12:45

Client ID: MW-6 Date Received: 12/17/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	3.7	J	ug/l	10	3.5	5
1,2,4,5-Tetramethylbenzene	48		ug/l	10	3.2	5
Ethyl ether	ND		ug/l	12	3.5	5
trans-1,4-Dichloro-2-butene	ND		ug/l	12	3.5	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-05
Client ID: MW-9
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/19/13 18:47
Analyst: MS

Date Collected: 12/16/13 11:35
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1325592
Project Number: Not Specified
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-05
Client ID: MW-9
Sample Location: Not Specified
Date Collected: 12/16/13 11:35
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1325592
Project Number: Not Specified
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-05
Client ID: MW-9
Sample Location: Not Specified
Date Collected: 12/16/13 11:35
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	103		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-06
Client ID: MW-10
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/19/13 19:14
Analyst: MS

Date Collected: 12/16/13 10:35
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	3.6		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE **Lab Number:** L1325592

Project Number: Not Specified **Report Date:** 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-06 Date Collected: 12/16/13 10:35

Client ID: MW-10 Date Received: 12/17/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	3.3		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	0.81	J	ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.6	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	4.6		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1325592
Project Number: Not Specified
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-06
Client ID: MW-10
Sample Location: Not Specified
Date Collected: 12/16/13 10:35
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	1.5	J	ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	103		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-07
Client ID: FB121613
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/19/13 19:42
Analyst: MS

Date Collected: 12/16/13 13:05
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-07
Client ID: FB121613
Sample Location: Not Specified
Date Collected: 12/16/13 13:05
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.2	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	1.0	J	ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1325592
Project Number: Not Specified
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-07
Client ID: FB121613
Sample Location: Not Specified
Date Collected: 12/16/13 13:05
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	104		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-08
Client ID: TRIP BLANK
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/19/13 20:09
Analyst: MS

Date Collected: 12/16/13 00:00
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE **Lab Number:** L1325592

Project Number: Not Specified **Report Date:** 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-08 Date Collected: 12/16/13 00:00

Client ID: TRIP BLANK Date Received: 12/17/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.8	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1325592
Project Number: Not Specified
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-08
Client ID: TRIP BLANK
Sample Location: Not Specified
Date Collected: 12/16/13 00:00
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	104		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-09
Client ID: DUP121613
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/20/13 14:12
Analyst: PD

Date Collected: 12/16/13 11:25
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE **Lab Number:** L1325592

Project Number: Not Specified **Report Date:** 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-09 Date Collected: 12/16/13 11:25

Client ID: DUP121613 Date Received: 12/17/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1325592
Project Number: Not Specified
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-09
Client ID: DUP121613
Sample Location: Not Specified
Date Collected: 12/16/13 11:25
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	109		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-10
Client ID: DUP-1-121613
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/20/13 14:40
Analyst: PD

Date Collected: 12/16/13 10:40
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	3.2		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE **Lab Number:** L1325592

Project Number: Not Specified **Report Date:** 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-10 Date Collected: 12/16/13 10:40

Client ID: DUP-1-121613 Date Received: 12/17/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	2.9		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	0.88	J	ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.5	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	4.1		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE
Lab Number: L1325592
Project Number: Not Specified
Report Date: 12/23/13

SAMPLE RESULTS

Lab ID: L1325592-10
Client ID: DUP-1-121613
Sample Location: Not Specified
Date Collected: 12/16/13 10:40
Date Received: 12/17/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	1.6	J	ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/13 11:00
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG660316-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/13 11:00
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG660316-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/13 11:00
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG660316-3					
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	106		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/20/13 11:22
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG660663-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/20/13 11:22
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG660663-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/20/13 11:22
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG660663-3					
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG660316-1 WG660316-2								
Methylene chloride	104		101		70-130	3		20
1,1-Dichloroethane	108		102		70-130	6		20
Chloroform	114		108		70-130	5		20
Carbon tetrachloride	111		104		63-132	7		20
1,2-Dichloropropane	99		97		70-130	2		20
Dibromochloromethane	106		107		63-130	1		20
1,1,2-Trichloroethane	113		113		70-130	0		20
Tetrachloroethene	101		98		70-130	3		20
Chlorobenzene	103		101		75-130	2		20
Trichlorofluoromethane	127		116		62-150	9		20
1,2-Dichloroethane	116		112		70-130	4		20
1,1,1-Trichloroethane	112		106		67-130	6		20
Bromodichloromethane	110		106		67-130	4		20
trans-1,3-Dichloropropene	109		110		70-130	1		20
cis-1,3-Dichloropropene	99		97		70-130	2		20
1,1-Dichloropropene	105		99		70-130	6		20
Bromoform	94		98		54-136	4		20
1,1,2,2-Tetrachloroethane	101		103		67-130	2		20
Benzene	104		99		70-130	5		20
Toluene	106		103		70-130	3		20
Ethylbenzene	108		104		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: Not Specified

Lab Number: L1325592

Report Date: 12/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG660316-1 WG660316-2								
Chloromethane	95		90		64-130	5		20
Bromomethane	68		81		39-139	17		20
Vinyl chloride	93		90		55-140	3		20
Chloroethane	106		100		55-138	6		20
1,1-Dichloroethene	104		98		61-145	6		20
trans-1,2-Dichloroethene	100		97		70-130	3		20
Trichloroethene	108		100		70-130	8		20
1,2-Dichlorobenzene	101		100		70-130	1		20
1,3-Dichlorobenzene	101		99		70-130	2		20
1,4-Dichlorobenzene	102		100		70-130	2		20
Methyl tert butyl ether	96		98		63-130	2		20
p/m-Xylene	109		105		70-130	4		20
o-Xylene	106		103		70-130	3		20
cis-1,2-Dichloroethene	102		97		70-130	5		20
Dibromomethane	105		104		70-130	1		20
1,2,3-Trichloropropane	110		113		64-130	3		20
Acrylonitrile	103		105		70-130	2		20
tert-Butyl Alcohol	102		116		70-130	13		20
Styrene	113		110		70-130	3		20
Dichlorodifluoromethane	110		104		36-147	6		20
Acetone	**160**	Q	144		58-148	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG660316-1 WG660316-2								
Carbon disulfide	92		87		51-130	6		20
2-Butanone	128		118		63-138	8		20
Vinyl acetate	102		104		70-130	2		20
4-Methyl-2-pentanone	84		88		59-130	5		20
2-Hexanone	106		103		57-130	3		20
Bromochloromethane	104		100		70-130	4		20
2,2-Dichloropropane	110		103		63-133	7		20
1,2-Dibromoethane	102		104		70-130	2		20
1,3-Dichloropropane	108		108		70-130	0		20
1,1,1,2-Tetrachloroethane	110		108		64-130	2		20
Bromobenzene	89		90		70-130	1		20
n-Butylbenzene	115		108		53-136	6		20
sec-Butylbenzene	104		101		70-130	3		20
tert-Butylbenzene	97		94		70-130	3		20
o-Chlorotoluene	102		101		70-130	1		20
p-Chlorotoluene	101		99		70-130	2		20
1,2-Dibromo-3-chloropropane	114		113		41-144	1		20
Hexachlorobutadiene	102		98		63-130	4		20
Isopropylbenzene	91		90		70-130	1		20
p-Isopropyltoluene	103		99		70-130	4		20
Naphthalene	94		100		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: Not Specified

Lab Number: L1325592

Report Date: 12/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG660316-1 WG660316-2								
n-Propylbenzene	99		96		69-130	3		20
1,2,3-Trichlorobenzene	99		102		70-130	3		20
1,2,4-Trichlorobenzene	100		102		70-130	2		20
1,3,5-Trimethylbenzene	104		102		64-130	2		20
1,2,4-Trimethylbenzene	104		101		70-130	3		20
1,4-Dioxane	108		114		56-162	5		20
1,4-Diethylbenzene	105		100		70-130	5		20
4-Ethyltoluene	99		96		70-130	3		20
1,2,4,5-Tetramethylbenzene	103		101		70-130	2		20
Ethyl ether	107		107		59-134	0		20
trans-1,4-Dichloro-2-butene	79		83		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		116		70-130
Toluene-d8	105		106		70-130
4-Bromofluorobenzene	87		91		70-130
Dibromofluoromethane	108		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG660663-1 WG660663-2								
Methylene chloride	96		100		70-130	4		20
1,1-Dichloroethane	100		104		70-130	4		20
Chloroform	104		106		70-130	2		20
Carbon tetrachloride	104		109		63-132	5		20
1,2-Dichloropropane	101		102		70-130	1		20
Dibromochloromethane	104		106		63-130	2		20
1,1,2-Trichloroethane	101		108		70-130	7		20
Tetrachloroethene	99		97		70-130	2		20
Chlorobenzene	97		99		75-130	2		20
Trichlorofluoromethane	103		108		62-150	5		20
1,2-Dichloroethane	106		108		70-130	2		20
1,1,1-Trichloroethane	105		108		67-130	3		20
Bromodichloromethane	104		105		67-130	1		20
trans-1,3-Dichloropropene	103		104		70-130	1		20
cis-1,3-Dichloropropene	101		103		70-130	2		20
1,1-Dichloropropene	102		105		70-130	3		20
Bromoform	99		100		54-136	1		20
1,1,2,2-Tetrachloroethane	96		100		67-130	4		20
Benzene	100		103		70-130	3		20
Toluene	96		100		70-130	4		20
Ethylbenzene	95		99		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG660663-1 WG660663-2								
Chloromethane	83		87		64-130	5		20
Bromomethane	68		60		39-139	13		20
Vinyl chloride	94		96		55-140	2		20
Chloroethane	103		103		55-138	0		20
1,1-Dichloroethene	96		106		61-145	10		20
trans-1,2-Dichloroethene	101		103		70-130	2		20
Trichloroethene	99		102		70-130	3		20
1,2-Dichlorobenzene	94		96		70-130	2		20
1,3-Dichlorobenzene	95		100		70-130	5		20
1,4-Dichlorobenzene	93		97		70-130	4		20
Methyl tert butyl ether	101		102		63-130	1		20
p/m-Xylene	97		102		70-130	5		20
o-Xylene	98		101		70-130	3		20
cis-1,2-Dichloroethene	104		105		70-130	1		20
Dibromomethane	109		107		70-130	2		20
1,2,3-Trichloropropane	99		98		64-130	1		20
Acrylonitrile	103		105		70-130	2		20
tert-Butyl Alcohol	116		118		70-130	2		20
Styrene	98		102		70-130	4		20
Dichlorodifluoromethane	87		90		36-147	3		20
Acetone	110		108		58-148	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG660663-1 WG660663-2								
Carbon disulfide	98		104		51-130	6		20
2-Butanone	101		104		63-138	3		20
Vinyl acetate	106		107		70-130	1		20
4-Methyl-2-pentanone	94		96		59-130	2		20
2-Hexanone	103		100		57-130	3		20
Bromochloromethane	97		102		70-130	5		20
2,2-Dichloropropane	108		109		63-133	1		20
1,2-Dibromoethane	100		101		70-130	1		20
1,3-Dichloropropane	102		103		70-130	1		20
1,1,1,2-Tetrachloroethane	98		103		64-130	5		20
Bromobenzene	95		100		70-130	5		20
n-Butylbenzene	97		105		53-136	8		20
sec-Butylbenzene	94		101		70-130	7		20
tert-Butylbenzene	92		101		70-130	9		20
o-Chlorotoluene	92		98		70-130	6		20
p-Chlorotoluene	96		100		70-130	4		20
1,2-Dibromo-3-chloropropane	96		104		41-144	8		20
Hexachlorobutadiene	102		106		63-130	4		20
Isopropylbenzene	92		99		70-130	7		20
p-Isopropyltoluene	92		101		70-130	9		20
Naphthalene	91		92		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: Not Specified

Lab Number: L1325592

Report Date: 12/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG660663-1 WG660663-2								
n-Propylbenzene	94		98		69-130	4		20
1,2,3-Trichlorobenzene	92		96		70-130	4		20
1,2,4-Trichlorobenzene	92		93		70-130	1		20
1,3,5-Trimethylbenzene	94		99		64-130	5		20
1,2,4-Trimethylbenzene	95		102		70-130	7		20
1,4-Dioxane	121		127		56-162	5		20
1,4-Diethylbenzene	94		98		70-130	4		20
4-Ethyltoluene	95		100		70-130	5		20
1,2,4,5-Tetramethylbenzene	89		94		70-130	5		20
Ethyl ether	112		104		59-134	7		20
trans-1,4-Dichloro-2-butene	102		107		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		108		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	99		103		70-130
Dibromofluoromethane	104		103		70-130

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325592-01A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-01B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-01C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-02A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-02B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-02C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-03A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-03B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-03C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-04A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-04B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-04C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-05A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-05B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-05C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-06A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-06B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-06C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-07A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-07B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-07C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-08A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-08B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-09A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-09B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-09C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-10A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE
Project Number: Not Specified

Lab Number: L1325592
Report Date: 12/23/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325592-10B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1325592-10C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	239 10TH AVE	**Lab Number:**	L1325592
Project Number:	Not Specified	**Report Date:**	12/23/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE	**Lab Number:**	L1325592
Project Number:	Not Specified	**Report Date:**	12/23/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name: 239 10TH AVE
Project Number: Not Specified
Lab Number: L1325592
Report Date: 12/23/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/18/13

ALPHA Job #: L1325592

Client Information

Client: Roux Associates
Address: 209 Shafter St
Islandia NY
Phone: 631-232-2600
Fax: 631-232-9898
Email: JGavin@Rouxinc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 239 10th Ave
Project Location:
Project #:
Project Manager: Wendy Shen
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 12/24/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
NYS DEC	EDD

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: TCL VOCs w/ MTBE + TBA	SAMPLE HANDLING	TOTAL # BOTTLES
25592-01	MW-1	12/16/13	1325	GW	JG	X X		
-02	MW-4	12/16/13	1125	GW	JF	X X		
-03	MW-5	12/16/13	1620	GW	JF	X X		
-04	MW-6	12/16/13	1245	GW	JF	X X		
-05	MW-9	12/16/13	1135	GW	JG	X X		
-06	MW-10	12/16/13	1035	GW	JG	X X		
-07	FB121613	12/16/13	1305	FB	JG	X X		
-08	TRIP BLANK	12/13/13	LAB	TB	LS	X X		
-09	DUP121613	12/16/13	1125	GW	JF	X X		
-10	DUP-1-121613	12/16/13	1010	GW	JG	X X		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

Container Type	✓																				
Preservative	B																				

Relinquished By:	Date/Time	Received By:	Date/Time
	12/17/13 11:00		12/17/13 11:00
Tom Tolan	12/17/13 1729	Tom Tolan	12-17-13 1729
	12-18-13 0050		12/18/13 0050

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1325888
Client:	Roux Associates, Inc. 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Wendy Shen
Phone:	(631) 232-2600
Project Name:	239 10TH AVE.
Project Number:	Not Specified
Report Date:	12/27/13

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 239 10TH AVE.
Project Number: Not Specified

Lab Number: L1325888
Report Date: 12/27/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1325888-01	MW-2	Not Specified	12/18/13 09:35
L1325888-02	MW-3	Not Specified	12/18/13 08:40
L1325888-03	MW-7	Not Specified	12/18/13 09:30
L1325888-04	MW-8	Not Specified	12/18/13 10:40
L1325888-05	MW-11	Not Specified	12/18/13 08:40
L1325888-06	MW-12	Not Specified	12/18/13 10:35
L1325888-07	FB121813	Not Specified	12/18/13 10:30
L1325888-08	TRIP BLANK	Not Specified	12/18/13 00:00

Project Name: 239 10TH AVE.
Project Number: Not Specified

Lab Number: L1325888
Report Date: 12/27/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 239 10TH AVE. **Lab Number:** L1325888
Project Number: Not Specified **Report Date:** 12/27/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 12/27/13

ORGANICS

VOLATILES

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-01
Client ID: MW-2
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 10:27
Analyst: PD

Date Collected: 12/18/13 09:35
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-01 Date Collected: 12/18/13 09:35

Client ID: MW-2 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	1.7	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-01 Date Collected: 12/18/13 09:35

Client ID: MW-2 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	107		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-02
Client ID: MW-3
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 10:56
Analyst: PD

Date Collected: 12/18/13 08:40
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	7.1		ug/l	0.50	0.16	1
Toluene	1.0	J	ug/l	2.5	0.70	1
Ethylbenzene	12		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-02 Date Collected: 12/18/13 08:40

Client ID: MW-3 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	1.2	J	ug/l	2.5	0.70	1
p/m-Xylene	8.5		ug/l	2.5	0.70	1
o-Xylene	23		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	18		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	0.70	J	ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	5.6		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	3.4		ug/l	2.5	0.70	1
n-Propylbenzene	8.7		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	22		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-02 Date Collected: 12/18/13 08:40

Client ID: MW-3 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	3.0		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	4.5		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-03 D
Client ID: MW-7
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 11:24
Analyst: PD

Date Collected: 12/18/13 09:30
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.26	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.29	2
Benzene	100		ug/l	1.0	0.32	2
Toluene	6.8		ug/l	5.0	1.4	2
Ethylbenzene	130		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.66	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.28	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-03 D Date Collected: 12/18/13 09:30

Client ID: MW-7 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	26		ug/l	5.0	1.4	2
p/m-Xylene	120		ug/l	5.0	1.4	2
o-Xylene	22		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
tert-Butyl Alcohol	150		ug/l	20	2.4	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	ND		ug/l	10	2.0	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	2.0	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	5.8		ug/l	5.0	1.4	2
sec-Butylbenzene	6.2		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	50		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	42		ug/l	5.0	1.4	2
n-Propylbenzene	81		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	4.0	J	ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	73		ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	82.	2
1,4-Diethylbenzene	12		ug/l	4.0	1.4	2

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-03 D Date Collected: 12/18/13 09:30

Client ID: MW-7 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	19		ug/l	4.0	1.4	2
1,2,4,5-Tetramethylbenzene	65		ug/l	4.0	1.3	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-04
Client ID: MW-8
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 11:52
Analyst: PD

Date Collected: 12/18/13 10:40
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.22	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-04 Date Collected: 12/18/13 10:40

Client ID: MW-8 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	4.8		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	13		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.9	J	ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-04 Date Collected: 12/18/13 10:40

Client ID: MW-8 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	107		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-05
Client ID: MW-11
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 12:21
Analyst: PD

Date Collected: 12/18/13 08:40
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-05 Date Collected: 12/18/13 08:40

Client ID: MW-11 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.4	J	ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-05 Date Collected: 12/18/13 08:40

Client ID: MW-11 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-06
Client ID: MW-12
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 12:49
Analyst: PD

Date Collected: 12/18/13 10:35
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-06 Date Collected: 12/18/13 10:35

Client ID: MW-12 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.8	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-06 Date Collected: 12/18/13 10:35

Client ID: MW-12 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	110		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-07
Client ID: FB121813
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 13:17
Analyst: PD

Date Collected: 12/18/13 10:30
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-07 Date Collected: 12/18/13 10:30

Client ID: FB121813 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-07 Date Collected: 12/18/13 10:30

Client ID: FB121813 Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	108		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-08
Client ID: TRIP BLANK
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 13:46
Analyst: PD

Date Collected: 12/18/13 00:00
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-08 Date Collected: 12/18/13 00:00

Client ID: TRIP BLANK Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

SAMPLE RESULTS

Lab ID: L1325888-08 Date Collected: 12/18/13 00:00

Client ID: TRIP BLANK Date Received: 12/19/13

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
4-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	111		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/27/13 07:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG661799-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/27/13 07:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG661799-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE. **Lab Number:** L1325888

Project Number: Not Specified **Report Date:** 12/27/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/27/13 07:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG661799-3					
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: Not Specified

Lab Number: L1325888
Report Date: 12/27/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG661799-1 WG661799-2								
Methylene chloride	94		96		70-130	2		20
1,1-Dichloroethane	99		102		70-130	3		20
Chloroform	106		106		70-130	0		20
Carbon tetrachloride	104		102		63-132	2		20
1,2-Dichloropropane	104		101		70-130	3		20
Dibromochloromethane	99		102		63-130	3		20
1,1,2-Trichloroethane	98		99		70-130	1		20
Tetrachloroethene	93		96		70-130	3		20
Chlorobenzene	92		94		75-130	2		20
Trichlorofluoromethane	107		104		62-150	3		20
1,2-Dichloroethane	108		112		70-130	4		20
1,1,1-Trichloroethane	106		104		67-130	2		20
Bromodichloromethane	103		102		67-130	1		20
trans-1,3-Dichloropropene	98		102		70-130	4		20
cis-1,3-Dichloropropene	99		103		70-130	4		20
1,1-Dichloropropene	100		101		70-130	1		20
Bromoform	91		93		54-136	2		20
1,1,2,2-Tetrachloroethane	94		96		67-130	2		20
Benzene	98		98		70-130	0		20
Toluene	92		95		70-130	3		20
Ethylbenzene	92		93		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: Not Specified

Lab Number: L1325888
Report Date: 12/27/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG661799-1 WG661799-2								
Chloromethane	77		77		64-130	0		20
Bromomethane	75		72		39-139	4		20
Vinyl chloride	93		89		55-140	4		20
Chloroethane	109		114		55-138	4		20
1,1-Dichloroethene	98		98		61-145	0		20
trans-1,2-Dichloroethene	101		97		70-130	4		20
Trichloroethene	104		101		70-130	3		20
1,2-Dichlorobenzene	86		89		70-130	3		20
1,3-Dichlorobenzene	89		90		70-130	1		20
1,4-Dichlorobenzene	88		87		70-130	1		20
Methyl tert butyl ether	100		103		63-130	3		20
p/m-Xylene	91		92		70-130	1		20
o-Xylene	92		92		70-130	0		20
cis-1,2-Dichloroethene	100		101		70-130	1		20
Dibromomethane	111		112		70-130	1		20
1,2,3-Trichloropropane	93		94		64-130	1		20
Acrylonitrile	98		108		70-130	10		20
tert-Butyl Alcohol	130		128		70-130	2		20
Styrene	93		95		70-130	2		20
Dichlorodifluoromethane	68		68		36-147	0		20
Acetone	108		117		58-148	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: Not Specified

Lab Number: L1325888
Report Date: 12/27/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG661799-1 WG661799-2								
Carbon disulfide	93		94		51-130	1		20
2-Butanone	126		130		63-138	3		20
Vinyl acetate	108		112		70-130	4		20
4-Methyl-2-pentanone	92		105		59-130	13		20
2-Hexanone	96		100		57-130	4		20
Bromochloromethane	99		102		70-130	3		20
2,2-Dichloropropane	108		104		63-133	4		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	97		100		70-130	3		20
1,1,1,2-Tetrachloroethane	97		98		64-130	1		20
Bromobenzene	91		93		70-130	2		20
n-Butylbenzene	95		94		53-136	1		20
sec-Butylbenzene	90		89		70-130	1		20
tert-Butylbenzene	88		88		70-130	0		20
o-Chlorotoluene	92		92		70-130	0		20
p-Chlorotoluene	92		91		70-130	1		20
1,2-Dibromo-3-chloropropane	99		99		41-144	0		20
Hexachlorobutadiene	93		96		63-130	3		20
Isopropylbenzene	88		89		70-130	1		20
p-Isopropyltoluene	88		88		70-130	0		20
Naphthalene	87		89		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: Not Specified

Lab Number: L1325888

Report Date: 12/27/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG661799-1 WG661799-2								
n-Propylbenzene	90		89		69-130	1		20
1,2,3-Trichlorobenzene	86		90		70-130	5		20
1,2,4-Trichlorobenzene	84		84		70-130	0		20
1,3,5-Trimethylbenzene	90		90		64-130	0		20
1,2,4-Trimethylbenzene	91		92		70-130	1		20
1,4-Dioxane	129		120		56-162	7		20
1,4-Diethylbenzene	89		88		70-130	1		20
4-Ethyltoluene	90		89		70-130	1		20
1,2,4,5-Tetramethylbenzene	83		82		70-130	1		20
Ethyl ether	109		111		59-134	2		20
trans-1,4-Dichloro-2-butene	105		98		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		114		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	105		106		70-130

Project Name: 239 10TH AVE.
Project Number: Not Specified

Lab Number: L1325888
Report Date: 12/27/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325888-01A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-01B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-01C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-02A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-02B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-02C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-03A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-03B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-03C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-04A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-04B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-04C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-05A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-05B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-05C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-06A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-06B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-06C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-07A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-07B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-07C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-08A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1325888-08B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	239 10TH AVE.	**Lab Number:**	L1325888
Project Number:	Not Specified	**Report Date:**	12/27/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE.	**Lab Number:**	L1325888
Project Number:	Not Specified	**Report Date:**	12/27/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name: 239 10TH AVE.
Project Number: Not Specified
Lab Number: L1325888
Report Date: 12/27/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE ____ OF ____

Date Rec'd in Lab: 12/20/13

ALPHA Job #: L1325888

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Roux Associates
Address: 209 Shafter St.
Islandia NY 11749
Phone: 631-232-2600
Fax: 631-232-9898
Email: JGavin@Rouxinc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 239 10th Ave
Project Location:
Project #:
Project Manager: Wendy Chen
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 12/27/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
NYS DEC	EDD

Other Project Specific Requirements/Comments/Detection Limits:
Please also send Results for this project to WShen@Rouxinc.com

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: TCL VOCs w/ MTBE + TIC	SAMPLE HANDLING	TOTAL # BOTTLES
25888.01	MW-2	12/18/13	935	GW	JG	X X		
.02	MW-3	12/18/13	840	GW	JG	X X		
.03	MW-7	12/18/13	930	GW	JF	X X		
.04	MW-8	12/18/13	1040	GW	JG	X X		
.05	MW-11	12/18/13	840	GW	JF	X X		
.06	MW-12	12/18/13	1035	GW	JF	X X		
.07	FB121813	12/18/13	1030	FB	JG	X X		
.08	TRIP BLANK	12/13/13	Lab	TB	KJ	X X		
	2 Sets of VOAs — empty — Returned.							

Container Type: V
Preservative: B

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

Relinquished By:	Date/Time	Received By:	Date/Time
	12/19/13 11:30		12/19/13 11:30
	12/19/13 1741	Tom Tober	12-19-13 1741
Tom Tober	12-20-13 00:45		12/20/13 00:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1403108
Client:	Roux Associates, Inc. 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Wendy Shen
Phone:	(631) 232-2600
Project Name:	239 10TH AVE.
Project Number:	2355.0001Y000
Report Date:	02/17/14

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1403108-01	SB-1/TP-1	NEW YORK, NY	02/07/14 15:30
L1403108-02	MW-2	NEW YORK, NY	02/07/14 11:45
L1403108-03	MW-3	NEW YORK, NY	02/07/14 14:20
L1403108-04	MW-5	NEW YORK, NY	02/07/14 13:15
L1403108-05	MW-7	NEW YORK, NY	02/07/14 10:15
L1403108-06	DUP-020714	NEW YORK, NY	02/07/14 12:00
L1403108-07	FIELD BLANK FB-020714	NEW YORK, NY	02/07/14 14:45
L1403108-08	TRIP BLANK	NEW YORK, NY	02/07/14 00:00

Project Name: 239 10TH AVE. **Lab Number:** L1403108
Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 239 10TH AVE. **Lab Number:** L1403108
Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were received above the appropriate pH for the Total Metals analysis. The laboratory added additional HNO3 to a pH <2.

L1403108-01 through -06 were field filtered for dissolved metals.

Semivolatile Organics by SIM

L1403108-01, -02, -03, -05, and -06 have elevated detection limits due to the dilutions required by the sample matrices.

The surrogate recoveries for L1403108-04 are below the acceptance criteria for 2-fluorophenol, phenol-d6, nitrobenzene-d5, 2-fluorobiphenyl, 2,4,6-tribromophenol, and 4-terphenyl-d14 (all 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total and Dissolved Metals

L1403108-01 through -06 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 02/17/14

ORGANICS

VOLATILES

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-01 D
Client ID: SB-1/TP-1
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/10/14 20:37
Analyst: PD

Date Collected: 02/07/14 15:30
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.3	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.4	10
Benzene	210		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	20	J	ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	3.3	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.4	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.7	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-01 D Date Collected: 02/07/14 15:30

Client ID: SB-1/TP-1 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Tert-Butyl Alcohol	21	J	ug/l	100	12.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	10.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	10.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	32		ug/l	25	7.0	10
sec-Butylbenzene	15	J	ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	98		ug/l	25	7.0	10
p-Isopropyltoluene	7.2	J	ug/l	25	7.0	10
Naphthalene	ND		ug/l	25	7.0	10
n-Propylbenzene	330		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	410	10
p-Diethylbenzene	28		ug/l	20	7.0	10

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-01 D Date Collected: 02/07/14 15:30

Client ID: SB-1/TP-1 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	ND		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	110		ug/l	20	6.5	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	91		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-07
Client ID: FIELD BLANK FB-020714
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/10/14 19:33
Analyst: PD

Date Collected: 02/07/14 14:45
Date Received: 02/07/14
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-07 Date Collected: 02/07/14 14:45

Client ID: FIELD BLANK FB-020714 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-07 Date Collected: 02/07/14 14:45

Client ID: FIELD BLANK FB-020714 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-08
Client ID: TRIP BLANK
Sample Location: NEW YORK, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/10/14 20:05
Analyst: PD

Date Collected: 02/07/14 00:00
Date Received: 02/07/14
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-08 Date Collected: 02/07/14 00:00

Client ID: TRIP BLANK Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.2	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-08 Date Collected: 02/07/14 00:00

Client ID: TRIP BLANK Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 14:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,07-08 Batch: WG669759-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 14:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,07-08 Batch: WG669759-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 14:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,07-08 Batch: WG669759-3					
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07-08 Batch: WG669759-1 WG669759-2								
Methylene chloride	90		77		70-130	16		20
1,1-Dichloroethane	96		83		70-130	15		20
Chloroform	98		83		70-130	17		20
Carbon tetrachloride	95		82		63-132	15		20
1,2-Dichloropropane	95		80		70-130	17		20
Dibromochloromethane	105		89		63-130	16		20
1,1,2-Trichloroethane	111		92		70-130	19		20
Tetrachloroethene	105		89		70-130	16		20
Chlorobenzene	107		90		75-130	17		20
Trichlorofluoromethane	97		82		62-150	17		20
1,2-Dichloroethane	97		82		70-130	17		20
1,1,1-Trichloroethane	98		83		67-130	17		20
Bromodichloromethane	94		80		67-130	16		20
trans-1,3-Dichloropropene	111		93		70-130	18		20
cis-1,3-Dichloropropene	98		82		70-130	18		20
1,1-Dichloropropene	96		82		70-130	16		20
Bromoform	106		90		54-136	16		20
1,1,2,2-Tetrachloroethane	115		96		67-130	18		20
Benzene	98		83		70-130	17		20
Toluene	110		92		70-130	18		20
Ethylbenzene	113		94		70-130	18		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07-08 Batch: WG669759-1 WG669759-2								
Chloromethane	85		72		64-130	17		20
Bromomethane	79		66		39-139	18		20
Vinyl chloride	84		73		55-140	14		20
Chloroethane	96		84		55-138	13		20
1,1-Dichloroethene	95		81		61-145	16		20
trans-1,2-Dichloroethene	92		80		70-130	14		20
Trichloroethene	96		82		70-130	16		20
1,2-Dichlorobenzene	111		95		70-130	16		20
1,3-Dichlorobenzene	112		96		70-130	15		20
1,4-Dichlorobenzene	109		92		70-130	17		20
Methyl tert butyl ether	94		80		63-130	16		20
p/m-Xylene	114		96		70-130	17		20
o-Xylene	106		88		70-130	19		20
cis-1,2-Dichloroethene	95		82		70-130	15		20
Dibromomethane	94		81		70-130	15		20
1,2,3-Trichloropropane	116		97		64-130	18		20
Acrylonitrile	97		80		70-130	19		20
Tert-Butyl Alcohol	109		86		70-130	**24**	Q	20
Styrene	105		88		70-130	18		20
Dichlorodifluoromethane	74		62		36-147	18		20
Acetone	74		**41**	Q	58-148	**57**	Q	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07-08 Batch: WG669759-1 WG669759-2								
Carbon disulfide	88		78		51-130	12		20
2-Butanone	92		**61**	Q	63-138	**41**	Q	20
Vinyl acetate	101		84		70-130	18		20
4-Methyl-2-pentanone	74		60		59-130	**21**	Q	20
2-Hexanone	90		58		57-130	**43**	Q	20
Bromochloromethane	98		83		70-130	17		20
2,2-Dichloropropane	103		87		63-133	17		20
1,2-Dibromoethane	107		90		70-130	17		20
1,3-Dichloropropane	110		92		70-130	18		20
1,1,1,2-Tetrachloroethane	109		91		64-130	18		20
Bromobenzene	110		94		70-130	16		20
n-Butylbenzene	108		92		53-136	16		20
sec-Butylbenzene	119		100		70-130	17		20
tert-Butylbenzene	112		94		70-130	17		20
o-Chlorotoluene	118		100		70-130	17		20
p-Chlorotoluene	118		101		70-130	16		20
1,2-Dibromo-3-chloropropane	111		94		41-144	17		20
Hexachlorobutadiene	107		90		63-130	17		20
Isopropylbenzene	110		93		70-130	17		20
p-Isopropyltoluene	106		90		70-130	16		20
Naphthalene	93		77		70-130	19		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07-08 Batch: WG669759-1 WG669759-2								
n-Propylbenzene	119		101		69-130	16		20
1,2,3-Trichlorobenzene	109		93		70-130	16		20
1,2,4-Trichlorobenzene	106		90		70-130	16		20
1,3,5-Trimethylbenzene	120		101		64-130	17		20
1,2,4-Trimethylbenzene	112		94		70-130	17		20
1,4-Dioxane	114		92		56-162	**21**	Q	20
p-Diethylbenzene	107		90		70-130	17		20
p-Ethyltoluene	120		101		70-130	17		20
1,2,4,5-Tetramethylbenzene	105		87		70-130	19		20
Ethyl ether	96		81		59-134	17		20
trans-1,4-Dichloro-2-butene	112		96		70-130	15		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	97		99		70-130
Dibromofluoromethane	96		95		70-130

SEMIVOLATILES

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-01	Date Collected:	02/07/14 15:30
Client ID:	SB-1/TP-1	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/08/14 12:33
Analytical Date:	02/10/14 14:22		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-01 Date Collected: 02/07/14 15:30

Client ID: SB-1/TP-1 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	83		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-01	D	Date Collected:	02/07/14 15:30
Client ID:	SB-1/TP-1		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	See Narrative
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM		Extraction Date:	02/08/14 12:31
Analytical Date:	02/10/14 16:39			
Analyst:	MW			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.22	J	ug/l	0.40	0.13	2
2-Chloronaphthalene	ND		ug/l	0.40	0.13	2
Fluoranthene	0.14	J	ug/l	0.40	0.09	2
Hexachlorobutadiene	ND		ug/l	1.0	0.14	2
Naphthalene	1.7		ug/l	0.40	0.13	2
Benzo(a)anthracene	ND		ug/l	0.40	0.11	2
Benzo(a)pyrene	ND		ug/l	0.40	0.14	2
Benzo(b)fluoranthene	ND		ug/l	0.40	0.14	2
Benzo(k)fluoranthene	ND		ug/l	0.40	0.14	2
Chrysene	0.11	J	ug/l	0.40	0.10	2
Acenaphthylene	ND		ug/l	0.40	0.10	2
Anthracene	ND		ug/l	0.40	0.13	2
Benzo(ghi)perylene	ND		ug/l	0.40	0.14	2
Fluorene	0.28	J	ug/l	0.40	0.11	2
Phenanthrene	0.54		ug/l	0.40	0.13	2
Dibenzo(a,h)anthracene	ND		ug/l	0.40	0.15	2
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.40	0.16	2
Pyrene	0.16	J	ug/l	0.40	0.11	2
2-Methylnaphthalene	17		ug/l	0.40	0.12	2
Pentachlorophenol	ND		ug/l	1.6	0.37	2
Hexachlorobenzene	ND		ug/l	1.6	0.03	2
Hexachloroethane	ND		ug/l	1.6	0.13	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	109		10-120
4-Terphenyl-d14	95		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-02	Date Collected:	02/07/14 11:45
Client ID:	MW-2	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/08/14 12:33
Analytical Date:	02/10/14 14:49		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-02 Date Collected: 02/07/14 11:45

Client ID: MW-2 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	83		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-02	D	Date Collected:	02/07/14 11:45
Client ID:	MW-2		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	See Narrative
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM		Extraction Date:	02/08/14 12:31
Analytical Date:	02/10/14 17:03			
Analyst:	MW			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.40	0.13	2
2-Chloronaphthalene	ND		ug/l	0.40	0.13	2
Fluoranthene	ND		ug/l	0.40	0.09	2
Hexachlorobutadiene	ND		ug/l	1.0	0.14	2
Naphthalene	ND		ug/l	0.40	0.13	2
Benzo(a)anthracene	ND		ug/l	0.40	0.11	2
Benzo(a)pyrene	ND		ug/l	0.40	0.14	2
Benzo(b)fluoranthene	ND		ug/l	0.40	0.14	2
Benzo(k)fluoranthene	ND		ug/l	0.40	0.14	2
Chrysene	ND		ug/l	0.40	0.10	2
Acenaphthylene	ND		ug/l	0.40	0.10	2
Anthracene	ND		ug/l	0.40	0.13	2
Benzo(ghi)perylene	ND		ug/l	0.40	0.14	2
Fluorene	ND		ug/l	0.40	0.11	2
Phenanthrene	ND		ug/l	0.40	0.13	2
Dibenzo(a,h)anthracene	ND		ug/l	0.40	0.15	2
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.40	0.16	2
Pyrene	ND		ug/l	0.40	0.11	2
2-Methylnaphthalene	ND		ug/l	0.40	0.12	2
Pentachlorophenol	ND		ug/l	1.6	0.37	2
Hexachlorobenzene	ND		ug/l	1.6	0.03	2
Hexachloroethane	ND		ug/l	1.6	0.13	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	94		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-03	Date Collected:	02/07/14 14:20
Client ID:	MW-3	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/08/14 12:33
Analytical Date:	02/10/14 15:16		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-03 Date Collected: 02/07/14 14:20

Client ID: MW-3 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	82		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-03	D	Date Collected:	02/07/14 14:20
Client ID:	MW-3		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	See Narrative
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM		Extraction Date:	02/08/14 12:31
Analytical Date:	02/10/14 17:28			
Analyst:	MW			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.40	0.13	2
2-Chloronaphthalene	ND		ug/l	0.40	0.13	2
Fluoranthene	ND		ug/l	0.40	0.09	2
Hexachlorobutadiene	ND		ug/l	1.0	0.14	2
Naphthalene	0.31	J	ug/l	0.40	0.13	2
Benzo(a)anthracene	ND		ug/l	0.40	0.11	2
Benzo(a)pyrene	ND		ug/l	0.40	0.14	2
Benzo(b)fluoranthene	ND		ug/l	0.40	0.14	2
Benzo(k)fluoranthene	ND		ug/l	0.40	0.14	2
Chrysene	ND		ug/l	0.40	0.10	2
Acenaphthylene	ND		ug/l	0.40	0.10	2
Anthracene	ND		ug/l	0.40	0.13	2
Benzo(ghi)perylene	ND		ug/l	0.40	0.14	2
Fluorene	ND		ug/l	0.40	0.11	2
Phenanthrene	ND		ug/l	0.40	0.13	2
Dibenzo(a,h)anthracene	ND		ug/l	0.40	0.15	2
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.40	0.16	2
Pyrene	ND		ug/l	0.40	0.11	2
2-Methylnaphthalene	ND		ug/l	0.40	0.12	2
Pentachlorophenol	ND		ug/l	1.6	0.37	2
Hexachlorobenzene	ND		ug/l	1.6	0.03	2
Hexachloroethane	ND		ug/l	1.6	0.13	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	92		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-04	Date Collected:	02/07/14 13:15
Client ID:	MW-5	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/08/14 12:33
Analytical Date:	02/10/14 15:43		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	2.3	J	ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-04 Date Collected: 02/07/14 13:15

Client ID: MW-5 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	8.0		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	89		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-04	D	Date Collected:	02/07/14 13:15
Client ID:	MW-5		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	See Narrative
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM		Extraction Date:	02/08/14 12:31
Analytical Date:	02/11/14 12:37			
Analyst:	MW			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	4.0	1.3	20
2-Chloronaphthalene	ND		ug/l	4.0	1.3	20
Fluoranthene	ND		ug/l	4.0	0.86	20
Hexachlorobutadiene	ND		ug/l	10	1.4	20
Naphthalene	280		ug/l	4.0	1.3	20
Benzo(a)anthracene	ND		ug/l	4.0	1.1	20
Benzo(a)pyrene	ND		ug/l	4.0	1.4	20
Benzo(b)fluoranthene	ND		ug/l	4.0	1.4	20
Benzo(k)fluoranthene	ND		ug/l	4.0	1.4	20
Chrysene	ND		ug/l	4.0	0.98	20
Acenaphthylene	ND		ug/l	4.0	1.0	20
Anthracene	ND		ug/l	4.0	1.3	20
Benzo(ghi)perylene	ND		ug/l	4.0	1.4	20
Fluorene	ND		ug/l	4.0	1.1	20
Phenanthrene	ND		ug/l	4.0	1.3	20
Dibenzo(a,h)anthracene	ND		ug/l	4.0	1.5	20
Indeno(1,2,3-cd)Pyrene	ND		ug/l	4.0	1.6	20
Pyrene	ND		ug/l	4.0	1.1	20
2-Methylnaphthalene	90		ug/l	4.0	1.2	20
Pentachlorophenol	9.3	J	ug/l	16	3.7	20
Hexachlorobenzene	ND		ug/l	16	0.28	20
Hexachloroethane	ND		ug/l	16	1.3	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	21-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	15-120
2,4,6-Tribromophenol	**0**	Q	10-120
4-Terphenyl-d14	**0**	Q	41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-05	Date Collected:	02/07/14 10:15
Client ID:	MW-7	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/08/14 12:33
Analytical Date:	02/10/14 16:09		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-05 Date Collected: 02/07/14 10:15

Client ID: MW-7 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	86		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-05	D	Date Collected:	02/07/14 10:15
Client ID:	MW-7		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	See Narrative
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM		Extraction Date:	02/08/14 12:31
Analytical Date:	02/10/14 18:18			
Analyst:	MW			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.21	J	ug/l	0.40	0.13	2
2-Chloronaphthalene	ND		ug/l	0.40	0.13	2
Fluoranthene	ND		ug/l	0.40	0.09	2
Hexachlorobutadiene	ND		ug/l	1.0	0.14	2
Naphthalene	14		ug/l	0.40	0.13	2
Benzo(a)anthracene	ND		ug/l	0.40	0.11	2
Benzo(a)pyrene	ND		ug/l	0.40	0.14	2
Benzo(b)fluoranthene	ND		ug/l	0.40	0.14	2
Benzo(k)fluoranthene	ND		ug/l	0.40	0.14	2
Chrysene	ND		ug/l	0.40	0.10	2
Acenaphthylene	ND		ug/l	0.40	0.10	2
Anthracene	ND		ug/l	0.40	0.13	2
Benzo(ghi)perylene	ND		ug/l	0.40	0.14	2
Fluorene	0.18	J	ug/l	0.40	0.11	2
Phenanthrene	ND		ug/l	0.40	0.13	2
Dibenzo(a,h)anthracene	ND		ug/l	0.40	0.15	2
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.40	0.16	2
Pyrene	ND		ug/l	0.40	0.11	2
2-Methylnaphthalene	1.0		ug/l	0.40	0.12	2
Pentachlorophenol	ND		ug/l	1.6	0.37	2
Hexachlorobenzene	ND		ug/l	1.6	0.03	2
Hexachloroethane	ND		ug/l	1.6	0.13	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	98		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-06	Date Collected:	02/07/14 12:00
Client ID:	DUP-020714	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/08/14 12:33
Analytical Date:	02/10/14 16:36		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	2.3	J	ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-06 Date Collected: 02/07/14 12:00

Client ID: DUP-020714 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	86		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-06	D	Date Collected:	02/07/14 12:00
Client ID:	DUP-020714		Date Received:	02/07/14
Sample Location:	NEW YORK, NY		Field Prep:	See Narrative
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM		Extraction Date:	02/08/14 12:31
Analytical Date:	02/10/14 18:42			
Analyst:	MW			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.19	J	ug/l	0.40	0.13	2
2-Chloronaphthalene	ND		ug/l	0.40	0.13	2
Fluoranthene	ND		ug/l	0.40	0.09	2
Hexachlorobutadiene	ND		ug/l	1.0	0.14	2
Naphthalene	10		ug/l	0.40	0.13	2
Benzo(a)anthracene	ND		ug/l	0.40	0.11	2
Benzo(a)pyrene	ND		ug/l	0.40	0.14	2
Benzo(b)fluoranthene	ND		ug/l	0.40	0.14	2
Benzo(k)fluoranthene	ND		ug/l	0.40	0.14	2
Chrysene	ND		ug/l	0.40	0.10	2
Acenaphthylene	ND		ug/l	0.40	0.10	2
Anthracene	ND		ug/l	0.40	0.13	2
Benzo(ghi)perylene	ND		ug/l	0.40	0.14	2
Fluorene	0.17	J	ug/l	0.40	0.11	2
Phenanthrene	ND		ug/l	0.40	0.13	2
Dibenzo(a,h)anthracene	ND		ug/l	0.40	0.15	2
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.40	0.16	2
Pyrene	ND		ug/l	0.40	0.11	2
2-Methylnaphthalene	1.0		ug/l	0.40	0.12	2
Pentachlorophenol	ND		ug/l	1.6	0.37	2
Hexachlorobenzene	ND		ug/l	1.6	0.03	2
Hexachloroethane	ND		ug/l	1.6	0.13	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	88		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-07	Date Collected:	02/07/14 14:45
Client ID:	FIELD BLANK FB-020714	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	None
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/08/14 12:33
Analytical Date:	02/10/14 17:03		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-07 Date Collected: 02/07/14 14:45

Client ID: FIELD BLANK FB-020714 Date Received: 02/07/14

Sample Location: NEW YORK, NY Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	80		41-149

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-07	Date Collected:	02/07/14 14:45
Client ID:	FIELD BLANK FB-020714	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	None
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	02/08/14 12:31
Analytical Date:	02/10/14 16:15		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	0.07	J	ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	89		41-149

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/10/14 11:42
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 02/08/14 12:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG669412-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Isophorone	ND		ug/l	5.0	0.79
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39
Dimethyl phthalate	ND		ug/l	5.0	0.33
Biphenyl	ND		ug/l	2.0	0.24
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/10/14 11:42
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 02/08/14 12:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG669412-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	73		41-149

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/10/14 12:57
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/08/14 12:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG669413-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/10/14 12:57
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/08/14 12:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG669413-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	84		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG669412-2 WG669412-3								
1,2,4-Trichlorobenzene	76		79		39-98	4		30
Bis(2-chloroethyl)ether	75		81		40-140	8		30
1,2-Dichlorobenzene	73		78		40-140	7		30
1,3-Dichlorobenzene	69		75		40-140	8		30
1,4-Dichlorobenzene	70		75		36-97	7		30
3,3'-Dichlorobenzidine	52		51		40-140	2		30
2,4-Dinitrotoluene	**106**	Q	**102**	Q	24-96	4		30
2,6-Dinitrotoluene	116		117		40-140	1		30
4-Chlorophenyl phenyl ether	112		110		40-140	2		30
4-Bromophenyl phenyl ether	118		116		40-140	2		30
Bis(2-chloroisopropyl)ether	59		62		40-140	5		30
Bis(2-chloroethoxy)methane	84		92		40-140	9		30
Hexachlorocyclopentadiene	60		62		40-140	3		30
Isophorone	90		93		40-140	3		30
Nitrobenzene	84		87		40-140	4		30
NitrosoDiPhenylAmine(NDPA)/DPA	108		109		40-140	1		30
n-Nitrosodi-n-propylamine	85		92		29-132	8		30
Bis(2-Ethylhexyl)phthalate	93		98		40-140	5		30
Butyl benzyl phthalate	95		95		40-140	0		30
Di-n-butylphthalate	97		98		40-140	1		30
Di-n-octylphthalate	94		100		40-140	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG669412-2 WG669412-3								
Diethyl phthalate	107		107		40-140	0		30
Dimethyl phthalate	100		101		40-140	1		30
Biphenyl	93		94			1		30
4-Chloroaniline	41		44		40-140	7		30
2-Nitroaniline	116		119		52-143	3		30
3-Nitroaniline	60		55		25-145	9		30
4-Nitroaniline	90		92		51-143	2		30
Dibenzofuran	99		98		40-140	1		30
1,2,4,5-Tetrachlorobenzene	86		88		2-134	2		30
Acetophenone	93		97		39-129	4		30
2,4,6-Trichlorophenol	114		120		30-130	5		30
P-Chloro-M-Cresol	**98**	Q	**102**	Q	23-97	4		30
2-Chlorophenol	85		88		27-123	3		30
2,4-Dichlorophenol	99		100		30-130	1		30
2,4-Dimethylphenol	62		67		30-130	8		30
2-Nitrophenol	92		99		30-130	7		30
4-Nitrophenol	56		56		10-80	0		30
2,4-Dinitrophenol	82		91		20-130	10		30
4,6-Dinitro-o-cresol	108		112		20-164	4		30
Phenol	33		35		12-110	6		30
2-Methylphenol	80		80		30-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG669412-2 WG669412-3								
3-Methylphenol/4-Methylphenol	78		82		30-130	5		30
2,4,5-Trichlorophenol	120		122		30-130	2		30
Benzoic Acid	42		40			5		30
Benzyl Alcohol	81		89			9		30
Carbazole	101		104		55-144	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		57		21-120
Phenol-d6	36		36		10-120
Nitrobenzene-d5	90		94		23-120
2-Fluorobiphenyl	99		99		15-120
2,4,6-Tribromophenol	98		100		10-120
4-Terphenyl-d14	107		106		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG669413-2 WG669413-3								
Acenaphthene	92		93		37-111	1		40
2-Chloronaphthalene	94		96		40-140	2		40
Fluoranthene	108		105		40-140	3		40
Hexachlorobutadiene	91		94		40-140	3		40
Naphthalene	89		91		40-140	2		40
Benzo(a)anthracene	105		103		40-140	2		40
Benzo(a)pyrene	96		87		40-140	10		40
Benzo(b)fluoranthene	110		100		40-140	10		40
Benzo(k)fluoranthene	96		90		40-140	6		40
Chrysene	88		87		40-140	1		40
Acenaphthylene	103		104		40-140	1		40
Anthracene	97		96		40-140	1		40
Benzo(ghi)perylene	98		75		40-140	27		40
Fluorene	103		106		40-140	3		40
Phenanthrene	91		91		40-140	0		40
Dibenzo(a,h)anthracene	101		83		40-140	20		40
Indeno(1,2,3-cd)Pyrene	102		81		40-140	23		40
Pyrene	101		101		26-127	0		40
2-Methylnaphthalene	94		94		40-140	0		40
Pentachlorophenol	**111**	Q	**107**	Q	9-103	4		40
Hexachlorobenzene	89		88		40-140	1		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG669413-2 WG669413-3								
Hexachloroethane	92		93		40-140	1		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		59		21-120
Phenol-d6	40		40		10-120
Nitrobenzene-d5	96		97		23-120
2-Fluorobiphenyl	86		86		15-120
2,4,6-Tribromophenol	105		107		10-120
4-Terphenyl-d14	105		109		41-149

PCBS

Project Name: 239 10TH AVE.
Lab Number: L1403108
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-01	Date Collected:	02/07/14 15:30
Client ID:	SB-1/TP-1	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/08/14 16:28
Analytical Date:	02/10/14 18:01	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/10/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 239 10TH AVE.
Lab Number: L1403108
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-02	Date Collected:	02/07/14 11:45
Client ID:	MW-2	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/08/14 16:28
Analytical Date:	02/10/14 18:13	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/10/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 239 10TH AVE.
Lab Number: L1403108
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-03	Date Collected:	02/07/14 14:20
Client ID:	MW-3	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/08/14 16:28
Analytical Date:	02/10/14 18:26	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/10/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-04	Date Collected:	02/07/14 13:15
Client ID:	MW-5	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/08/14 16:28
Analytical Date:	02/10/14 18:38	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/10/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 239 10TH AVE.
Lab Number: L1403108
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-05	Date Collected:	02/07/14 10:15
Client ID:	MW-7	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/08/14 16:28
Analytical Date:	02/10/14 18:50	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/10/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-06	Date Collected:	02/07/14 12:00
Client ID:	DUP-020714	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/08/14 16:28
Analytical Date:	02/10/14 19:02	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/10/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-07	Date Collected:	02/07/14 14:45
Client ID:	FIELD BLANK FB-020714	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	None
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/08/14 16:28
Analytical Date:	02/10/14 19:15	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	02/10/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	124		30-150	A
2,4,5,6-Tetrachloro-m-xylene	108		30-150	B
Decachlorobiphenyl	125		30-150	B

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/10/14 19:27
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 02/08/14 16:28
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/10/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-07 Batch: WG669424-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	116		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	113		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG669424-2 WG669424-3									
Aroclor 1016	103		97		40-140	6		50	A
Aroclor 1260	106		102		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		75		30-150	A
Decachlorobiphenyl	128		123		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		80		30-150	B
Decachlorobiphenyl	126		118		30-150	B

PESTICIDES

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-01	Date Collected:	02/07/14 15:30
Client ID:	SB-1/TP-1	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:51
Analytical Date:	02/14/14 00:54	Cleanup Method1:	EPA 3620B
Analyst:	GP	Cleanup Date1:	02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-02	Date Collected:	02/07/14 11:45
Client ID:	MW-2	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:51
Analytical Date:	02/14/14 01:06	Cleanup Method1:	EPA 3620B
Analyst:	GP	Cleanup Date1:	02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-03	Date Collected:	02/07/14 14:20
Client ID:	MW-3	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:51
Analytical Date:	02/14/14 01:19	Cleanup Method1:	EPA 3620B
Analyst:	GP	Cleanup Date1:	02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-04	Date Collected:	02/07/14 13:15
Client ID:	MW-5	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:51
Analytical Date:	02/14/14 01:32	Cleanup Method1:	EPA 3620B
Analyst:	GP	Cleanup Date1:	02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	40		30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-05	Date Collected:	02/07/14 10:15
Client ID:	MW-7	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:51
Analytical Date:	02/14/14 01:45	Cleanup Method1:	EPA 3620B
Analyst:	GP	Cleanup Date1:	02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-06	Date Collected:	02/07/14 12:00
Client ID:	DUP-020714	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:51
Analytical Date:	02/14/14 01:58	Cleanup Method1:	EPA 3620B
Analyst:	GP	Cleanup Date1:	02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

SAMPLE RESULTS

Lab ID:	L1403108-07	Date Collected:	02/07/14 14:45
Client ID:	FIELD BLANK FB-020714	Date Received:	02/07/14
Sample Location:	NEW YORK, NY	Field Prep:	None
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:51
Analytical Date:	02/14/14 02:10	Cleanup Method1:	EPA 3620B
Analyst:	GP	Cleanup Date1:	02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/14/14 00:02
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 02/10/14 16:51
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/12/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-07 Batch: WG669628-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG669628-2 WG669628-3									
Delta-BHC	84		72		30-150	15		20	A
Lindane	87		75		30-150	16		20	A
Alpha-BHC	85		73		30-150	16		20	A
Beta-BHC	83		72		30-150	14		20	A
Heptachlor	84		74		30-150	13		20	A
Aldrin	89		77		30-150	15		20	A
Heptachlor epoxide	90		77		30-150	16		20	A
Endrin	89		76		30-150	16		20	A
Endrin ketone	78		67		30-150	15		20	A
Dieldrin	90		77		30-150	15		20	A
4,4'-DDE	88		76		30-150	15		20	A
4,4'-DDD	88		76		30-150	15		20	A
4,4'-DDT	93		79		30-150	16		20	A
Endosulfan I	94		80		30-150	15		20	A
Endosulfan II	86		74		30-150	15		20	A
Endosulfan sulfate	75		64		30-150	15		20	A
Methoxychlor	75		66		30-150	13		20	A
cis-Chlordane	89		78		30-150	13		20	A
trans-Chlordane	90		78		30-150	15		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG669628-2 WG669628-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		61		30-150	A
Decachlorobiphenyl	89		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		50		30-150	B
Decachlorobiphenyl	75		69		30-150	B

METALS

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-01
Client ID: SB-1/TP-1
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 15:30
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2.70		mg/l	0.200	0.0400	20	02/10/14 08:47	02/11/14 21:18	EPA 3005A	1,6020A	BM
Antimony, Total	0.00110	J	mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Arsenic, Total	0.01104		mg/l	0.00100	0.00040	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Barium, Total	0.2792		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00020	J	mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00013	J	mg/l	0.00040	0.00010	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Calcium, Total	221.		mg/l	2.00	0.640	20	02/10/14 08:47	02/11/14 21:18	EPA 3005A	1,6020A	BM
Chromium, Total	0.00688		mg/l	0.00400	0.00040	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00466		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Copper, Total	0.1444		mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Iron, Total	12.3		mg/l	0.100	0.0260	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Lead, Total	0.00958		mg/l	0.00200	0.00040	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Magnesium, Total	33.4		mg/l	0.140	0.0460	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Manganese, Total	2.158		mg/l	0.01000	0.00200	20	02/10/14 08:47	02/11/14 21:18	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 12:14	EPA 7470A	1,7470A	AK
Nickel, Total	0.00865		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Potassium, Total	33.7		mg/l	0.200	0.0540	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Selenium, Total	0.00458	J	mg/l	0.0100	0.00060	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00080	0.00020	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Sodium, Total	370.		mg/l	2.00	0.300	20	02/10/14 08:47	02/11/14 21:18	EPA 3005A	1,6020A	BM
Thallium, Total	0.00006	J	mg/l	0.00100	0.00006	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00625	J	mg/l	0.01000	0.00020	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Zinc, Total	0.05660		mg/l	0.02000	0.00240	2	02/10/14 08:47	02/11/14 21:03	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0176	J	mg/l	0.0200	0.00400	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Antimony, Dissolved	0.00047	J	mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Arsenic, Dissolved	0.00993		mg/l	0.00100	0.00040	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Barium, Dissolved	0.2798		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00040	0.00010	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-01
Client ID: SB-1/TP-1
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 15:30
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	249.		mg/l	2.00	0.640	20	02/11/14 09:43	02/12/14 22:50	NA	1,6020A	BM
Chromium, Dissolved	0.00069	J	mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Cobalt, Dissolved	0.00301		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Copper, Dissolved	0.00183	J	mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Iron, Dissolved	8.47		mg/l	0.100	0.0260	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Lead, Dissolved	0.00083	J	mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Magnesium, Dissolved	41.6		mg/l	0.140	0.0460	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Manganese, Dissolved	2.334		mg/l	0.01000	0.00200	20	02/11/14 09:43	02/12/14 22:50	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 13:31	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00477		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Potassium, Dissolved	35.9		mg/l	0.200	0.0540	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Selenium, Dissolved	0.00397	J	mg/l	0.0100	0.00060	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00080	0.00020	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Sodium, Dissolved	416.		mg/l	2.00	0.300	20	02/11/14 09:43	02/12/14 22:50	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00100	0.00006	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Vanadium, Dissolved	0.00154	J	mg/l	0.01000	0.00020	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM
Zinc, Dissolved	0.01840	J	mg/l	0.02000	0.00240	2	02/11/14 09:43	02/12/14 22:43	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-02
Client ID: MW-2
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 11:45
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.236		mg/l	0.0400	0.00800	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Antimony, Total	0.00147	J	mg/l	0.00400	0.00040	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00877		mg/l	0.00200	0.00080	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Barium, Total	0.1212		mg/l	0.00200	0.00040	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00200	0.00040	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00024	J	mg/l	0.00080	0.00020	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Calcium, Total	262.		mg/l	2.00	0.640	20	02/10/14 08:47	02/11/14 21:39	EPA 3005A	1,6020A	BM
Chromium, Total	0.00348	J	mg/l	0.00800	0.00080	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00140	J	mg/l	0.00200	0.00040	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Copper, Total	0.01812		mg/l	0.00400	0.00040	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Iron, Total	4.11		mg/l	0.200	0.0520	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Lead, Total	0.00537		mg/l	0.00400	0.00080	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Magnesium, Total	58.0		mg/l	0.280	0.0920	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Manganese, Total	2.238		mg/l	0.01000	0.00200	20	02/10/14 08:47	02/11/14 21:39	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 12:22	EPA 7470A	1,7470A	AK
Nickel, Total	0.00844		mg/l	0.00200	0.00040	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Potassium, Total	36.9		mg/l	0.400	0.108	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Selenium, Total	0.00506	J	mg/l	0.0200	0.00120	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00160	0.00040	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Sodium, Total	749.		mg/l	2.00	0.300	20	02/10/14 08:47	02/11/14 21:39	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00200	0.00012	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00316	J	mg/l	0.02000	0.00040	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Zinc, Total	0.04048		mg/l	0.04000	0.00480	4	02/10/14 08:47	02/11/14 21:33	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0126	J	mg/l	0.0200	0.00400	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Antimony, Dissolved	0.00108	J	mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Arsenic, Dissolved	0.00662		mg/l	0.00100	0.00040	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Barium, Dissolved	0.1079		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Cadmium, Dissolved	0.00010	J	mg/l	0.00040	0.00010	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-02
Client ID: MW-2
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 11:45
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	253.		mg/l	2.00	0.640	20	02/11/14 09:43	02/12/14 23:02	NA	1,6020A	BM
Chromium, Dissolved	0.00145	J	mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Cobalt, Dissolved	0.00101		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Copper, Dissolved	0.00640		mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Iron, Dissolved	2.32		mg/l	0.100	0.0260	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Magnesium, Dissolved	56.3		mg/l	0.140	0.0460	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Manganese, Dissolved	2.110		mg/l	0.01000	0.00200	20	02/11/14 09:43	02/12/14 23:02	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 13:37	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00822		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Potassium, Dissolved	34.3		mg/l	0.200	0.0540	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Selenium, Dissolved	0.00410	J	mg/l	0.0100	0.00060	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00080	0.00020	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Sodium, Dissolved	749.		mg/l	2.00	0.300	20	02/11/14 09:43	02/12/14 23:02	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00100	0.00006	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Vanadium, Dissolved	0.00224	J	mg/l	0.01000	0.00020	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM
Zinc, Dissolved	0.01628	J	mg/l	0.02000	0.00240	2	02/11/14 09:43	02/12/14 22:56	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-03
Client ID: MW-3
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 14:20
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0224		mg/l	0.0200	0.00400	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Antimony, Total	0.00073	J	mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00935		mg/l	0.00100	0.00040	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Barium, Total	0.1002		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00010	J	mg/l	0.00040	0.00010	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Calcium, Total	382.		mg/l	2.00	0.640	20	02/10/14 08:47	02/11/14 21:52	EPA 3005A	1,6020A	BM
Chromium, Total	0.00132	J	mg/l	0.00400	0.00040	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00125		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Copper, Total	0.01667		mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Iron, Total	2.94		mg/l	0.100	0.0260	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Lead, Total	0.00046	J	mg/l	0.00200	0.00040	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Magnesium, Total	65.2		mg/l	0.140	0.0460	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Manganese, Total	0.7194		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 12:23	EPA 7470A	1,7470A	AK
Nickel, Total	0.01136		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Potassium, Total	43.7		mg/l	0.200	0.0540	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Selenium, Total	0.00396	J	mg/l	0.0100	0.00060	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00080	0.00020	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Sodium, Total	409.		mg/l	2.00	0.300	20	02/10/14 08:47	02/11/14 21:52	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00100	0.00006	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Vanadium, Total	0.01157		mg/l	0.01000	0.00020	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Zinc, Total	0.03024		mg/l	0.02000	0.00240	2	02/10/14 08:47	02/11/14 21:45	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0117	J	mg/l	0.0200	0.00400	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Antimony, Dissolved	0.00076	J	mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Arsenic, Dissolved	0.00878		mg/l	0.00100	0.00040	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Barium, Dissolved	0.1079		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00040	0.00010	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Lab Number: L1403108
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-03
Client ID: MW-3
Sample Location: NEW YORK, NY
Matrix: Water

Date Collected: 02/07/14 14:20
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	372.		mg/l	2.00	0.640	20	02/11/14 09:43	02/12/14 23:15	NA	1,6020A	BM
Chromium, Dissolved	0.00217		mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Cobalt, Dissolved	0.00146		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Copper, Dissolved	0.00465		mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Iron, Dissolved	2.78		mg/l	0.100	0.0260	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Magnesium, Dissolved	77.4		mg/l	0.140	0.0460	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Manganese, Dissolved	0.7316		mg/l	0.01000	0.00200	20	02/11/14 09:43	02/12/14 23:15	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 13:39	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.01516		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Potassium, Dissolved	48.8		mg/l	0.200	0.0540	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Selenium, Dissolved	0.00458	J	mg/l	0.0100	0.00060	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00080	0.00020	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Sodium, Dissolved	412.		mg/l	2.00	0.300	20	02/11/14 09:43	02/12/14 23:15	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00100	0.00006	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Vanadium, Dissolved	0.01316		mg/l	0.01000	0.00020	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM
Zinc, Dissolved	0.02322		mg/l	0.02000	0.00240	2	02/11/14 09:43	02/12/14 23:08	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-04
Client ID: MW-5
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 13:15
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	17.7		mg/l	1.00	0.200	100	02/10/14 08:47	02/11/14 21:58	EPA 3005A	1,6020A	BM
Antimony, Total	0.00049	J	mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Arsenic, Total	0.01897		mg/l	0.00100	0.00040	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Barium, Total	0.5594		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00140		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00048		mg/l	0.00040	0.00010	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Calcium, Total	133.		mg/l	2.00	0.640	20	02/10/14 08:47	02/11/14 22:23	EPA 3005A	1,6020A	BM
Chromium, Total	0.03818		mg/l	0.00400	0.00040	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Cobalt, Total	0.01320		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Copper, Total	0.08176		mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Iron, Total	59.9		mg/l	0.100	0.0260	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Lead, Total	0.04954		mg/l	0.00200	0.00040	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Magnesium, Total	17.9		mg/l	0.140	0.0460	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Manganese, Total	3.354		mg/l	0.01000	0.00200	20	02/10/14 08:47	02/11/14 22:23	EPA 3005A	1,6020A	BM
Mercury, Total	0.00009	J	mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 12:25	EPA 7470A	1,7470A	AK
Nickel, Total	0.04128		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Potassium, Total	17.2		mg/l	0.200	0.0540	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Selenium, Total	0.00342	J	mg/l	0.0100	0.00060	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00080	0.00020	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Sodium, Total	549.		mg/l	2.00	0.300	20	02/10/14 08:47	02/11/14 22:23	EPA 3005A	1,6020A	BM
Thallium, Total	0.00026	J	mg/l	0.00100	0.00006	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Vanadium, Total	0.04380		mg/l	0.01000	0.00020	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Zinc, Total	0.09450		mg/l	0.02000	0.00240	2	02/10/14 08:47	02/11/14 22:17	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.00400	J	mg/l	0.0200	0.00400	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Antimony, Dissolved	0.00029	J	mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Arsenic, Dissolved	0.01565		mg/l	0.00100	0.00040	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Barium, Dissolved	0.4188		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00040	0.00010	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-04
Client ID: MW-5
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 13:15
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	122.		mg/l	2.00	0.640	20	02/11/14 09:43	02/12/14 23:40	NA	1,6020A	BM
Chromium, Dissolved	0.00098	J	mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Cobalt, Dissolved	0.00031	J	mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Copper, Dissolved	0.00061	J	mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Iron, Dissolved	35.1		mg/l	0.100	0.0260	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Lead, Dissolved	0.00449		mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Magnesium, Dissolved	13.4		mg/l	0.140	0.0460	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Manganese, Dissolved	2.234		mg/l	0.01000	0.00200	20	02/11/14 09:43	02/12/14 23:40	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 13:45	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00287		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Potassium, Dissolved	15.2		mg/l	0.200	0.0540	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Selenium, Dissolved	0.00168	J	mg/l	0.0100	0.00060	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00080	0.00020	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Sodium, Dissolved	583.		mg/l	2.00	0.300	20	02/11/14 09:43	02/12/14 23:40	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00100	0.00006	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Vanadium, Dissolved	0.00144	J	mg/l	0.01000	0.00020	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM
Zinc, Dissolved	0.00240	J	mg/l	0.02000	0.00240	2	02/11/14 09:43	02/12/14 23:33	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-05
Client ID: MW-7
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 10:15
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.110		mg/l	0.0200	0.00400	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00444		mg/l	0.00100	0.00040	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Barium, Total	0.1352		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00040	0.00010	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Calcium, Total	109.		mg/l	2.00	0.640	20	02/10/14 08:47	02/11/14 22:35	EPA 3005A	1,6020A	BM
Chromium, Total	0.00110	J	mg/l	0.00400	0.00040	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00065	J	mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Copper, Total	0.00187	J	mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Iron, Total	9.89		mg/l	0.100	0.0260	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Lead, Total	0.00079	J	mg/l	0.00200	0.00040	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Magnesium, Total	23.1		mg/l	0.140	0.0460	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Manganese, Total	4.650		mg/l	0.01000	0.00200	20	02/10/14 08:47	02/11/14 22:35	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 12:27	EPA 7470A	1,7470A	AK
Nickel, Total	0.00263		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Potassium, Total	27.7		mg/l	0.200	0.0540	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Selenium, Total	0.00282	J	mg/l	0.0100	0.00060	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00080	0.00020	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Sodium, Total	421.		mg/l	2.00	0.300	20	02/10/14 08:47	02/11/14 22:35	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00100	0.00006	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00092	J	mg/l	0.01000	0.00020	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Zinc, Total	0.00335	J	mg/l	0.02000	0.00240	2	02/10/14 08:47	02/11/14 22:29	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.00565	J	mg/l	0.0200	0.00400	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Antimony, Dissolved	ND		mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Arsenic, Dissolved	0.00418		mg/l	0.00100	0.00040	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Barium, Dissolved	0.1308		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00040	0.00010	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-05
Client ID: MW-7
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 10:15
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	117.		mg/l	2.00	0.640	20	02/11/14 09:43	02/12/14 23:52	NA	1,6020A	BM
Chromium, Dissolved	0.00075	J	mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Cobalt, Dissolved	0.00039	J	mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Copper, Dissolved	0.00054	J	mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Iron, Dissolved	7.76		mg/l	0.100	0.0260	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Magnesium, Dissolved	23.5		mg/l	0.140	0.0460	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Manganese, Dissolved	4.770		mg/l	0.01000	0.00200	20	02/11/14 09:43	02/12/14 23:52	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 13:47	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00325		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Potassium, Dissolved	27.6		mg/l	0.200	0.0540	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Selenium, Dissolved	0.00291	J	mg/l	0.0100	0.00060	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00080	0.00020	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Sodium, Dissolved	465.		mg/l	2.00	0.300	20	02/11/14 09:43	02/12/14 23:52	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00100	0.00006	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Vanadium, Dissolved	0.00059	J	mg/l	0.01000	0.00020	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM
Zinc, Dissolved	0.00358	J	mg/l	0.02000	0.00240	2	02/11/14 09:43	02/12/14 23:46	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-06
Client ID: DUP-020714
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 12:00
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2.34		mg/l	0.200	0.0400	20	02/10/14 08:47	02/11/14 22:48	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00862		mg/l	0.00100	0.00040	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Barium, Total	0.1378		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00040	0.00010	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Calcium, Total	110.		mg/l	2.00	0.640	20	02/10/14 08:47	02/11/14 22:48	EPA 3005A	1,6020A	BM
Chromium, Total	0.00611		mg/l	0.00400	0.00040	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00285		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Copper, Total	0.00929		mg/l	0.00200	0.00020	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Iron, Total	20.2		mg/l	0.100	0.0260	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Lead, Total	0.00530		mg/l	0.00200	0.00040	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Magnesium, Total	23.1		mg/l	0.140	0.0460	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Manganese, Total	4.564		mg/l	0.01000	0.00200	20	02/10/14 08:47	02/11/14 22:48	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 12:35	EPA 7470A	1,7470A	AK
Nickel, Total	0.00641		mg/l	0.00100	0.00020	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Potassium, Total	25.8		mg/l	0.200	0.0540	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Selenium, Total	0.00300	J	mg/l	0.0100	0.00060	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00080	0.00020	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Sodium, Total	423.		mg/l	2.00	0.300	20	02/10/14 08:47	02/11/14 22:48	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00100	0.00006	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00592	J	mg/l	0.01000	0.00020	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Zinc, Total	0.01517	J	mg/l	0.02000	0.00240	2	02/10/14 08:47	02/11/14 22:41	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0116	J	mg/l	0.0200	0.00400	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Antimony, Dissolved	ND		mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Arsenic, Dissolved	0.00497		mg/l	0.00100	0.00040	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Barium, Dissolved	0.1244		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00040	0.00010	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-06
Client ID: DUP-020714
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 12:00
Date Received: 02/07/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	114.		mg/l	2.00	0.640	20	02/11/14 09:43	02/13/14 00:05	NA	1,6020A	BM
Chromium, Dissolved	0.00070	J	mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Cobalt, Dissolved	0.00034	J	mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Copper, Dissolved	0.00075	J	mg/l	0.00200	0.00020	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Iron, Dissolved	7.37		mg/l	0.100	0.0260	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00200	0.00040	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Magnesium, Dissolved	23.2		mg/l	0.140	0.0460	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Manganese, Dissolved	4.612		mg/l	0.01000	0.00200	20	02/11/14 09:43	02/13/14 00:05	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 13:49	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00303		mg/l	0.00100	0.00020	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Potassium, Dissolved	26.8		mg/l	0.200	0.0540	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Selenium, Dissolved	0.00291	J	mg/l	0.0100	0.00060	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00080	0.00020	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Sodium, Dissolved	454.		mg/l	2.00	0.300	20	02/11/14 09:43	02/13/14 00:05	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00100	0.00006	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Vanadium, Dissolved	0.00060	J	mg/l	0.01000	0.00020	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM
Zinc, Dissolved	0.00294	J	mg/l	0.02000	0.00240	2	02/11/14 09:43	02/12/14 23:59	NA	1,6020A	BM

Project Name: 239 10TH AVE.
Lab Number: L1403108
Project Number: 2355.0001Y000
Report Date: 02/17/14

SAMPLE RESULTS

Lab ID: L1403108-07
Client ID: FIELD BLANK FB-020714
Sample Location: NEW YORK, NY
Matrix: Water
Date Collected: 02/07/14 14:45
Date Received: 02/07/14
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.108		mg/l	0.0100	0.00200	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Antimony, Total	0.00023	J	mg/l	0.00100	0.00010	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00028	J	mg/l	0.00050	0.00020	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Barium, Total	0.00152		mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Calcium, Total	0.958		mg/l	0.100	0.0320	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Chromium, Total	0.00074	J	mg/l	0.00200	0.00020	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Copper, Total	0.00115		mg/l	0.00100	0.00010	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Iron, Total	0.159		mg/l	0.0500	0.0130	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Lead, Total	0.00087	J	mg/l	0.00100	0.00020	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Magnesium, Total	0.0984		mg/l	0.0700	0.0230	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Manganese, Total	0.00352		mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 12:37	EPA 7470A	1,7470A	AK
Nickel, Total	0.00034	J	mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Potassium, Total	0.125		mg/l	0.100	0.0270	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Selenium, Total	0.00030	J	mg/l	0.00500	0.00030	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Sodium, Total	1.08		mg/l	0.100	0.0150	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00038	J	mg/l	0.00500	0.00010	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM
Zinc, Total	0.00321	J	mg/l	0.01000	0.00120	1	02/10/14 08:47	02/11/14 20:06	EPA 3005A	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000
Lab Number: L1403108
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-07 Batch: WG669380-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 12:10	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-06 Batch: WG669384-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/08/14 08:48	02/08/14 13:28	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-07 Batch: WG669479-1										
Aluminum, Total	0.00560	J	mg/l	0.0100	0.00200	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Antimony, Total	0.00017	J	mg/l	0.00100	0.00010	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Arsenic, Total	0.00024	J	mg/l	0.00050	0.00020	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Calcium, Total	0.0356	J	mg/l	0.100	0.0320	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Chromium, Total	0.00105	J	mg/l	0.00200	0.00020	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Copper, Total	0.00022	J	mg/l	0.00100	0.00010	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Iron, Total	0.0222	J	mg/l	0.0500	0.0130	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Manganese, Total	0.00027	J	mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Nickel, Total	0.00020	J	mg/l	0.00050	0.00010	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM

Project Name: 239 10TH AVE. **Lab Number:** L1403108

Project Number: 2355.0001Y000 **Report Date:** 02/17/14

Method Blank Analysis
Batch Quality Control

Selenium, Total	ND		mg/l	0.00500	0.00030	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Sodium, Total	0.0485	J	mg/l	0.100	0.0150	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	02/10/14 08:47	02/11/14 19:48	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-06 Batch: WG669741-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Antimony, Dissolved	ND		mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Arsenic, Dissolved	0.00026	J	mg/l	0.00050	0.00020	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Chromium, Dissolved	0.00034	J	mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Copper, Dissolved	0.00017	J	mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Iron, Dissolved	0.0214	J	mg/l	0.0500	0.0130	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0230	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Manganese, Dissolved	0.00011	J	mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Nickel, Dissolved	0.00019	J	mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Sodium, Dissolved	0.0975	J	mg/l	0.100	0.0150	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Zinc, Dissolved	ND		mg/l	0.01000	0.00120	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: NA

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 Batch: WG669380-2								
Mercury, Total	114		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG669384-2								
Mercury, Dissolved	110		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 Batch: WG669479-2					
Aluminum, Total	98	-	80-120	-	
Antimony, Total	86	-	80-120	-	
Arsenic, Total	98	-	80-120	-	
Barium, Total	93	-	80-120	-	
Beryllium, Total	95	-	80-120	-	
Cadmium, Total	94	-	80-120	-	
Calcium, Total	101	-	80-120	-	
Chromium, Total	94	-	80-120	-	
Cobalt, Total	100	-	80-120	-	
Copper, Total	102	-	80-120	-	
Iron, Total	108	-	80-120	-	
Lead, Total	94	-	80-120	-	
Magnesium, Total	102	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	97	-	80-120	-	
Selenium, Total	97	-	80-120	-	
Silver, Total	91	-	80-120	-	
Sodium, Total	100	-	80-120	-	
Thallium, Total	90	-	80-120	-	
Vanadium, Total	95	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 Batch: WG669479-2					
Zinc, Total	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG669741-2					
Aluminum, Dissolved	104	-	80-120	-	
Antimony, Dissolved	88	-	80-120	-	
Arsenic, Dissolved	99	-	80-120	-	
Barium, Dissolved	94	-	80-120	-	
Beryllium, Dissolved	92	-	80-120	-	
Cadmium, Dissolved	97	-	80-120	-	
Calcium, Dissolved	103	-	80-120	-	
Chromium, Dissolved	96	-	80-120	-	
Cobalt, Dissolved	101	-	80-120	-	
Copper, Dissolved	103	-	80-120	-	
Iron, Dissolved	117	-	80-120	-	
Lead, Dissolved	94	-	80-120	-	
Magnesium, Dissolved	107	-	80-120	-	
Manganese, Dissolved	106	-	80-120	-	
Nickel, Dissolved	102	-	80-120	-	
Potassium, Dissolved	101	-	80-120	-	
Selenium, Dissolved	100	-	80-120	-	
Silver, Dissolved	91	-	80-120	-	
Sodium, Dissolved	109	-	80-120	-	
Thallium, Dissolved	90	-	80-120	-	
Vanadium, Dissolved	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE.

Project Number: 2355.0001Y000

Lab Number: L1403108

Report Date: 02/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG669741-2					
Zinc, Dissolved	102	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG669380-4 QC Sample: L1403108-01 Client ID: SB-1/TP-1												
Mercury, Total	ND	0.005	0.00617	124		-	-		75-125	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG669384-4 QC Sample: L1403108-01 Client ID: SB-1/TP-1												
Mercury, Dissolved	ND	0.005	0.00577	115		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG669479-4 QC Sample: L1403081-02 Client ID: MS Sample										
Aluminum, Total	0.075	2	2.27	110		-	-	75-125	-	20
Antimony, Total	0.00079J	0.5	0.5098	102		-	-	75-125	-	20
Arsenic, Total	0.00363	0.12	0.1307	106		-	-	75-125	-	20
Barium, Total	0.0442	2	2.076	102		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05020	100		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05188	102		-	-	75-125	-	20
Calcium, Total	82.8	10	95.0	122		-	-	75-125	-	20
Chromium, Total	0.00283J	0.2	0.1999	100		-	-	75-125	-	20
Cobalt, Total	0.0008J	0.5	0.5232	105		-	-	75-125	-	20
Copper, Total	0.0083	0.25	0.2741	106		-	-	75-125	-	20
Iron, Total	1.29	1	2.46	117		-	-	75-125	-	20
Lead, Total	0.00143J	0.51	0.5116	100		-	-	75-125	-	20
Magnesium, Total	44.6	10	55.5	109		-	-	75-125	-	20
Manganese, Total	0.1192	0.5	0.6179	100		-	-	75-125	-	20
Nickel, Total	0.0039	0.5	0.5224	104		-	-	75-125	-	20
Potassium, Total	65.6	10	75.1	95		-	-	75-125	-	20
Selenium, Total	0.006J	0.12	0.127	106		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04725	94		-	-	75-125	-	20
Sodium, Total	916.	10	931	**150**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1135	94		-	-	75-125	-	20
Vanadium, Total	0.0099J	0.5	0.5165	103		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG669479-4 QC Sample: L1403081-02 Client ID: MS Sample									
Zinc, Total	0.01721J	0.5	0.5362	107	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG669741-4 QC Sample: L1402995-01 Client ID: MS Sample										
Aluminum, Dissolved	ND	2	1.98	99		-	-	75-125	-	20
Antimony, Dissolved	0.00072J	0.5	0.4316	86		-	-	75-125	-	20
Arsenic, Dissolved	0.00330	0.12	0.1288	107		-	-	75-125	-	20
Barium, Dissolved	0.1022	2	2.024	96		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04910	98		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05110	100		-	-	75-125	-	20
Calcium, Dissolved	87.2	10	99.9	**127**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.00082J	0.2	0.1988	99		-	-	75-125	-	20
Cobalt, Dissolved	0.00043J	0.5	0.5234	105		-	-	75-125	-	20
Copper, Dissolved	0.00055J	0.25	0.2710	108		-	-	75-125	-	20
Iron, Dissolved	2.68	1	4.38	123		-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5016	98		-	-	75-125	-	20
Magnesium, Dissolved	19.2	10	31.1	111		-	-	75-125	-	20
Manganese, Dissolved	0.6338	0.5	1.145	102		-	-	75-125	-	20
Nickel, Dissolved	0.00592	0.5	0.5362	107		-	-	75-125	-	20
Potassium, Dissolved	11.2	10	22.2	106		-	-	75-125	-	20
Selenium, Dissolved	0.00156J	0.12	0.128	107		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04568	91		-	-	75-125	-	20
Sodium, Dissolved	64.1	10	74.2	101		-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1119	93		-	-	75-125	-	20
Vanadium, Dissolved	0.00018J	0.5	0.4996	100		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG669741-4 QC Sample: L1402995-01 Client ID: MS Sample									
Zinc, Dissolved	0.02335	0.5	0.5542	111	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG669380-3 QC Sample: L1403108-01 Client ID: SB-1/TP-1						
Mercury, Total	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG669384-3 QC Sample: L1403108-01 Client ID: SB-1/TP-1						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG669479-3 QC Sample: L1403081-02 Client ID: DUP Sample						
Antimony, Total	0.00079J	0.00076J	mg/l	NC		20
Arsenic, Total	0.00363	0.00413	mg/l	13		20
Chromium, Total	0.00283J	0.00282J	mg/l	NC		20
Lead, Total	0.00143J	0.00152J	mg/l	NC		20
Zinc, Total	0.01721J	0.01752J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG669741-3 QC Sample: L1402995-01 Client ID: DUP Sample					
Aluminum, Dissolved	ND	ND	mg/l	NC	20
Antimony, Dissolved	0.00072J	0.00068J	mg/l	NC	20
Arsenic, Dissolved	0.00330	0.00292	mg/l	12	20
Barium, Dissolved	0.1022	0.1018	mg/l	0	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	0.00082J	0.00086J	mg/l	NC	20
Cobalt, Dissolved	0.00043J	0.00043J	mg/l	NC	20
Copper, Dissolved	0.00055J	0.00063J	mg/l	NC	20
Iron, Dissolved	2.68	2.69	mg/l	0	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	19.2	19.2	mg/l	0	20
Nickel, Dissolved	0.00592	0.00615	mg/l	4	20
Potassium, Dissolved	11.2	11.3	mg/l	1	20
Selenium, Dissolved	0.00156J	0.00144J	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	0.00018J	0.00017J	mg/l	NC	20
Zinc, Dissolved	0.02335	0.02373	mg/l	2	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG669741-3 QC Sample: L1402995-01 Client ID: DUP Sample					
Calcium, Dissolved	87.2	88.7	mg/l	2	20
Manganese, Dissolved	0.6338	0.6442	mg/l	2	20
Sodium, Dissolved	64.1	64.6	mg/l	1	20

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent
C	Absent
E	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403108-01A	Vial HCl preserved	B	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1403108-01B	Vial HCl preserved	B	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1403108-01C	Vial HCl preserved	B	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1403108-01D	Amber 1000ml unpreserved	E	7	3.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-01E	Amber 1000ml unpreserved	E	7	3.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-01F	Amber 500ml unpreserved	E	7	3.3	Y	Absent	NYTCL-8081(7)
L1403108-01G	Amber 500ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8081(7)
L1403108-01H	Amber 1000ml unpreserved	E	7	3.3	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-01I	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-01J	Plastic 500ml HNO3 preserved	A	<2	2.9	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403108-01K	Plastic 500ml HNO3 preserved	A	<2	2.9	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1403108-02D	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-02E	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-02F	Amber 500ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8081(7)
L1403108-02G	Amber 500ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8081(7)
L1403108-02H	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-02I	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-02J	Plastic 500ml HNO3 preserved	E	<2	3.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1403108-02K	Plastic 500ml HNO3 preserved	E	<2	3.3	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1403108-03D	Amber 1000ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-03E	Amber 1000ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-03F	Amber 500ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8081(7)
L1403108-03G	Amber 500ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8081(7)
L1403108-03H	Amber 1000ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-03I	Amber 1000ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8082-1200ML(7)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403108-03J	Plastic 500ml HNO3 preserved	B	<2	3.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1403108-03K	Plastic 500ml HNO3 preserved	B	<2	3.1	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1403108-04D	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-04E	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-04F	Amber 500ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8081(7)
L1403108-04G	Amber 500ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8081(7)
L1403108-04H	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-04I	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-04J	Plastic 500ml HNO3 preserved	A	<2	2.9	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403108-04K	Plastic 500ml HNO3 preserved	E	<2	3.3	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1403108-05D	Amber 1000ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-05E	Amber 1000ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-05F	Amber 500ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8081(7)
L1403108-05G	Amber 500ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8081(7)
L1403108-05H	Amber 1000ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-05I	Amber 1000ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-05J	Plastic 500ml HNO3 preserved	C	<2	3.5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1403108-05K	Plastic 500ml HNO3 preserved	C	<2	3.5	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1403108-06D	Amber 1000ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-06E	Amber 1000ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-06F	Amber 500ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8081(7)
L1403108-06G	Amber 500ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8081(7)
L1403108-06H	Amber 1000ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-06I	Amber 1000ml unpreserved	C	7	3.5	Y	Absent	NYTCL-8082-1200ML(7)

*Values in parentheses indicate holding time in days

Project Name: 239 10TH AVE.
Project Number: 2355.0001Y000

Lab Number: L1403108
Report Date: 02/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403108-06J	Plastic 500ml HNO3 preserved	C	<2	3.5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1403108-06K	Plastic 500ml HNO3 preserved	C	<2	3.5	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1403108-07A	Vial HCl preserved	B	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1403108-07B	Vial HCl preserved	B	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1403108-07C	Vial HCl preserved	B	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1403108-07D	Amber 1000ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-07E	Amber 1000ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1403108-07F	Amber 500ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8081(7)
L1403108-07G	Amber 500ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8081(7)
L1403108-07H	Amber 1000ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-07I	Amber 1000ml unpreserved	B	7	3.1	Y	Absent	NYTCL-8082-1200ML(7)
L1403108-07J	Plastic 500ml HNO3 preserved	B	<2	3.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1403108-07K	Plastic 500ml HNO3 preserved	B	<2	3.1	Y	Absent	-
L1403108-08A	Vial HCl preserved	B	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1403108-08B	Vial HCl preserved	B	N/A	3.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	239 10TH AVE.	**Lab Number:**	L1403108
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE.	**Lab Number:**	L1403108
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	239 10TH AVE.	**Lab Number:**	L1403108
Project Number:	2355.0001Y000	**Report Date:**	02/17/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 2/8/14

ALPHA Job #: L1403108

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Roux Associates Inc
Address: 209 Shafter St.
Islandia NY
Phone: 631-232-2600
Fax: 631-232-9898
Email: WSHEN@RouxInc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 239 10th Ave
Project Location: New York, NY
Project #: 2355.0001Y000
Project Manager: Wendy Shen
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 2/14/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

CAT B DELIVERABLE

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC + MTBE, TBA	TCL SVOC	TCL PEST	PCB	TAL METALS	TAL Dissolved Metals (CFP)	Sample Specific Comments
03108-01	SB-1/TP-1	2/7/14	1530	GW	JG	X	X	X	X	X	X	
02	MW-2		1145	GW	JG		X	X	X	X	X	
03	MW-3		1420	GW	JG		X	X	X	X	X	
04	MW-5		1315	GW	JG		X	X	X	X	X	
05	MW-7		1015	GW	JG		X	X	X	X	X	
06	DUP-020714		1200	GW	JG		X	X	X	X	X	
07	Field Blank FB-020714		1445	FB	JG	X	X	X	X	X		
08	TRIP BLANK		—	TB	LAB	X						
Container Type						V	A	A	A	P	P	
Preservative						B	A	A	A	A	C	

SAMPLE HANDLING

Filtration
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TOTAL # BOTTLES

Relinquished By:	Date/Time	Received By:	Date/Time
Robert Hoagland	2/7/14 1605	Robert Hoagland	2/7/14 1605
Robert Hoagland	2/7/14 19:30	Abdul Mahmud	2/7/14 19:30
Abdul Mahmud	2/8/14 0015	[illegible]	2/8/14 0015

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

APPENDIX H

Laboratory Data Deliverables for
Soil Vapor Analytical Data

ANALYTICAL REPORT

Lab Number:	L1403094
Client:	Roux Associates, Inc. 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Wendy Shen
Phone:	(631) 232-2600
Project Name:	239 10TH AVE
Project Number:	2355.0001Y000
Report Date:	02/14/14

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1403094-01	SV-3	NEW YORK, NY	02/07/14 10:25
L1403094-02	SV-1	NEW YORK, NY	02/07/14 11:02
L1403094-03	SV-2	NEW YORK, NY	02/07/14 11:01

Project Name:	239 10TH AVE	**Lab Number:**	L1403094
Project Number:	2355.0001Y000	**Report Date:**	02/14/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 239 10TH AVE **Lab Number:** L1403094
Project Number: 2355.0001Y000 **Report Date:** 02/14/14

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 31, 2014. The canister certification results are provided as an addendum.

The WG669856-3 LCS recovery for Hexachlorobutadiene (156%) is above the upper 130% acceptance limit. None of the samples associated with this LCS have reportable amounts of this analyte.

The sample designated SV-2 (L1403094-02) had a RPD for the pre- and post-flow controller calibration check (23% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 17.8 mL/minute; the final flow rate was 22.5 mL/minute. The final pressure recorded by the laboratory of the associated canister was -2.0 inches of mercury.

Sample Receipt

The samples were originally logged in based on the canister ID numbers on the sample tags but these did not match the chain of custody form. The client was contacted and based on their field notes we were instructed to log the samples in based on the canister ID numbers on the chain of custody form.

Samples L1403094-01, -02 and -03 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Samples L1403094-01 and -03 were diluted and re-analyzed to quantify the sample within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compounds that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 02/14/14

AIR

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-01 D
Client ID: SV-3
Sample Location: NEW YORK, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/12/14 00:04
Analyst: MR

Date Collected: 02/07/14 10:25
Date Received: 02/07/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	25.0	--	ND	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	50.2	10.0	--	119	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	154	2.00	--	555	7.21	--		10
2-Butanone	ND	2.00	--	ND	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-01 D
Client ID: SV-3
Sample Location: NEW YORK, NY

Date Collected: 02/07/14 10:25
Date Received: 02/07/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	335	2.00	--	1180	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	17.3	2.00	--	55.3	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	123	2.00	--	423	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	1780	2.00	--	8310	9.34	--	E	10
Heptane	186	2.00	--	762	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	2.00	--	ND	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	5.90	2.00	--	22.2	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
p/m-Xylene	5.68	4.00	--	24.7	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-01 D
Client ID: SV-3
Sample Location: NEW YORK, NY
Date Collected: 02/07/14 10:25
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	2.27	2.00	--	9.86	8.69	--		10
4-Ethyltoluene	2.17	2.00	--	10.7	9.83	--		10
1,3,5-Trimethylbenzene	4.75	2.00	--	23.4	9.83	--		10
1,2,4-Trimethylbenzene	6.36	2.00	--	31.3	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	102		60-140

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-01 D2
Client ID: SV-3
Sample Location: NEW YORK, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/12/14 09:34
Analyst: MR

Date Collected: 02/07/14 10:25
Date Received: 02/07/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2,2,4-Trimethylpentane	1880	4.00	--	8780	18.7	--		20

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	116		60-140
Bromochloromethane	116		60-140
chlorobenzene-d5	118		60-140

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-02 D
Client ID: SV-1
Sample Location: NEW YORK, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/12/14 00:35
Analyst: MR

Date Collected: 02/07/14 11:02
Date Received: 02/07/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	25.0	--	ND	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	ND	10.0	--	ND	23.8	--		10
Trichlorofluoromethane	2.20	2.00	--	12.4	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	3.57	2.00	--	11.1	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	2.00	--	ND	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-02 D
Client ID: SV-1
Sample Location: NEW YORK, NY

Date Collected: 02/07/14 11:02
Date Received: 02/07/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	64.0	2.00	--	226	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	21.0	2.00	--	72.3	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	532	2.00	--	2480	9.34	--		10
Heptane	112	2.00	--	459	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	2.00	--	ND	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	6.06	2.00	--	22.8	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	2.30	2.00	--	15.6	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	3.63	2.00	--	15.8	8.69	--		10
p/m-Xylene	12.8	4.00	--	55.6	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-02 D
Client ID: SV-1
Sample Location: NEW YORK, NY

Date Collected: 02/07/14 11:02
Date Received: 02/07/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	5.21	2.00	--	22.6	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	2.63	2.00	--	12.9	9.83	--		10
1,2,4-Trimethylbenzene	2.05	2.00	--	10.1	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-03 D
Client ID: SV-2
Sample Location: NEW YORK, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/12/14 01:06
Analyst: MR

Date Collected: 02/07/14 11:01
Date Received: 02/07/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	25.0	--	ND	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	14.1	10.0	--	33.5	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	5.22	2.00	--	16.3	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	68.3	2.00	--	246	7.21	--		10
2-Butanone	ND	2.00	--	ND	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-03 D
Client ID: SV-2
Sample Location: NEW YORK, NY

Date Collected: 02/07/14 11:01
Date Received: 02/07/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	1220	2.00	--	4300	7.05	--	E	10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	18.0	2.00	--	57.5	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	227	2.00	--	781	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	1860	2.00	--	8690	9.34	--	E	10
Heptane	460	2.00	--	1890	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	2.00	--	ND	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	142	2.00	--	535	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	210	2.00	--	912	8.69	--		10
p/m-Xylene	889	4.00	--	3860	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-03 D
Client ID: SV-2
Sample Location: NEW YORK, NY

Date Collected: 02/07/14 11:01
Date Received: 02/07/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	234	2.00	--	1020	8.69	--		10
4-Ethyltoluene	73.5	2.00	--	361	9.83	--		10
1,3,5-Trimethylbenzene	70.6	2.00	--	347	9.83	--		10
1,2,4-Trimethylbenzene	220	2.00	--	1080	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	107		60-140

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000
Lab Number: L1403094
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1403094-03 D2
Client ID: SV-2
Sample Location: NEW YORK, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/12/14 10:05
Analyst: MR

Date Collected: 02/07/14 11:01
Date Received: 02/07/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	1310	4.01	--	4620	14.1	--		20.07
2,2,4-Trimethylpentane	1980	4.01	--	9250	18.7	--		20.07

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	118		60-140
Bromochloromethane	128		60-140
chlorobenzene-d5	120		60-140

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/11/14 13:42

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG669856-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/11/14 13:42

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG669856-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/11/14 13:42

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG669856-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403094

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG669856-3								
Chlorodifluoromethane	87		-		70-130	-		
Propylene	90		-		70-130	-		
Propane	75		-		70-130	-		
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	91		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	92		-		70-130	-		
Methanol	88		-		70-130	-		
Vinyl chloride	98		-		70-130	-		
1,3-Butadiene	99		-		70-130	-		
Butane	87		-		70-130	-		
Bromomethane	94		-		70-130	-		
Chloroethane	96		-		70-130	-		
Ethyl Alcohol	90		-		70-130	-		
Dichlorofluoromethane	84		-		70-130	-		
Vinyl bromide	91		-		70-130	-		
Acrolein	87		-		70-130	-		
Acetone	112		-		70-130	-		
Acetonitrile	88		-		70-130	-		
Trichlorofluoromethane	90		-		70-130	-		
iso-Propyl Alcohol	100		-		70-130	-		
Acrylonitrile	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403094

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG669856-3								
Pentane	81		-		70-130	-		
Ethyl ether	90		-		70-130	-		
1,1-Dichloroethene	92		-		70-130	-		
tert-Butyl Alcohol	84		-		70-130	-		
Methylene chloride	92		-		70-130	-		
3-Chloropropene	105		-		70-130	-		
Carbon disulfide	90		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	92		-		70-130	-		
trans-1,2-Dichloroethene	84		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	89		-		70-130	-		
Vinyl acetate	79		-		70-130	-		
2-Butanone	83		-		70-130	-		
cis-1,2-Dichloroethene	102		-		70-130	-		
Ethyl Acetate	82		-		70-130	-		
Chloroform	91		-		70-130	-		
Tetrahydrofuran	82		-		70-130	-		
2,2-Dichloropropane	84		-		70-130	-		
1,2-Dichloroethane	89		-		70-130	-		
n-Hexane	97		-		70-130	-		
Isopropyl Ether	83		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403094

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG669856-3								
Ethyl-Tert-Butyl-Ether	90		-		70-130	-		
1,1,1-Trichloroethane	97		-		70-130	-		
1,1-Dichloropropene	96		-		70-130	-		
Benzene	96		-		70-130	-		
Carbon tetrachloride	102		-		70-130	-		
Cyclohexane	94		-		70-130	-		
Tertiary-Amyl Methyl Ether	90		-		70-130	-		
Dibromomethane	91		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	96		-		70-130	-		
1,4-Dioxane	93		-		70-130	-		
Trichloroethene	97		-		70-130	-		
2,2,4-Trimethylpentane	97		-		70-130	-		
Methyl methacrylate	96		-		70-130	-		
Heptane	98		-		70-130	-		
cis-1,3-Dichloropropene	101		-		70-130	-		
4-Methyl-2-pentanone	92		-		70-130	-		
trans-1,3-Dichloropropene	87		-		70-130	-		
1,1,2-Trichloroethane	100		-		70-130	-		
Toluene	100		-		70-130	-		
1,3-Dichloropropane	92		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403094

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG669856-3								
2-Hexanone	106		-		70-130	-		
Dibromochloromethane	94		-		70-130	-		
1,2-Dibromoethane	112		-		70-130	-		
Butyl Acetate	111		-		70-130	-		
Octane	92		-		70-130	-		
Tetrachloroethene	98		-		70-130	-		
1,1,1,2-Tetrachloroethane	95		-		70-130	-		
Chlorobenzene	99		-		70-130	-		
Ethylbenzene	107		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	87		-		70-130	-		
Styrene	102		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	102		-		70-130	-		
1,2,3-Trichloropropane	94		-		70-130	-		
Nonane (C9)	96		-		70-130	-		
Isopropylbenzene	97		-		70-130	-		
Bromobenzene	94		-		70-130	-		
o-Chlorotoluene	96		-		70-130	-		
n-Propylbenzene	95		-		70-130	-		
p-Chlorotoluene	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403094

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG669856-3								
4-Ethyltoluene	86		-		70-130	-		
1,3,5-Trimethylbenzene	100		-		70-130	-		
tert-Butylbenzene	98		-		70-130	-		
1,2,4-Trimethylbenzene	103		-		70-130	-		
Decane (C10)	97		-		70-130	-		
Benzyl chloride	93		-		70-130	-		
1,3-Dichlorobenzene	105		-		70-130	-		
1,4-Dichlorobenzene	105		-		70-130	-		
sec-Butylbenzene	98		-		70-130	-		
p-Isopropyltoluene	90		-		70-130	-		
1,2-Dichlorobenzene	104		-		70-130	-		
n-Butylbenzene	102		-		70-130	-		
1,2-Dibromo-3-chloropropane	89		-		70-130	-		
Undecane	107		-		70-130	-		
Dodecane (C12)	**237**	Q	-		70-130	-		
1,2,4-Trichlorobenzene	106		-		70-130	-		
Naphthalene	109		-		70-130	-		
1,2,3-Trichlorobenzene	123		-		70-130	-		
Hexachlorobutadiene	**156**	Q	-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG669856-5 QC Sample: L1402914-02 Client ID: DUP Sample						
Propylene	ND	ND	ppbV	NC		25
Dichlorodifluoromethane	0.372	0.368	ppbV	1		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	4.82	4.11	ppbV	16		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	5.93	6.16	ppbV	4		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
iso-Propyl Alcohol	0.630	0.576	ppbV	9		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG669856-5 QC Sample: L1402914-02 Client ID: DUP Sample					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
Vinyl acetate	0.893	0.876	ppbV	2	25
2-Butanone	15.0	15.0	ppbV	0	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	12.1	11.7	ppbV	3	25
Tetrahydrofuran	47.4	46.6	ppbV	2	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	1.80	1.73	ppbV	4	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	0.271	0.244	ppbV	10	25
1,4-Dioxane	1.39	1.35	ppbV	3	25
Trichloroethene	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG669856-5 QC Sample: L1402914-02 Client ID: DUP Sample					
Heptane	0.771	0.707	ppbV	9	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	50.4	48.0	ppbV	5	25
2-Hexanone	0.276	0.250	ppbV	10	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	0.295	0.290	ppbV	2	25
p/m-Xylene	0.532	0.506	ppbV	5	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	0.847	0.805	ppbV	5	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	0.208	0.209	ppbV	0	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG669856-5 QC Sample: L1402914-02 Client ID: DUP Sample					
1,2,4-Trimethylbenzene	0.313	0.297	ppbV	5	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	2.06	1.94	ppbV	6	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: 239 10TH AVE

Project Number: 2355.0001Y000

Lab Number: L1403094

Report Date: 02/14/14

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1403094-01	SV-3	0443	#30 SV	01/31/14	98305		-	-	-	Pass	17.9	19.0	6
L1403094-01	SV-3	181	2.7L Can	01/31/14	98305	L1401512-01	Pass	-29.7	1.7	-	-	-	-
L1403094-02	SV-1	0282	#30 SV	01/31/14	98305		-	-	-	Pass	17.8	22.5	23
L1403094-02	SV-1	447	2.7L Can	01/31/14	98305	L1401512-01	Pass	-29.7	-2.0	-	-	-	-
L1403094-03	SV-2	0005	#30 AMB	01/31/14	98305		-	-	-	Pass	17.7	21.0	17
L1403094-03	SV-2	387	2.7L Can	01/31/14	98305	L1401512-01	Pass	-29.7	3.33	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1401512
Report Date: 02/14/14

Air Canister Certification Results

Lab ID: L1401512-01
Client ID: CAN 552 SHELF 8
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/20/14 15:54
Analyst: MB

Date Collected: 01/15/14 16:26
Date Received: 01/16/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1401512
Report Date: 02/14/14

Air Canister Certification Results

Lab ID: L1401512-01
Client ID: CAN 552 SHELF 8
Sample Location:
Date Collected: 01/15/14 16:26
Date Received: 01/16/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1401512
Report Date: 02/14/14

Air Canister Certification Results

Lab ID: L1401512-01
Client ID: CAN 552 SHELF 8
Sample Location:
Date Collected: 01/15/14 16:26
Date Received: 01/16/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1401512
Report Date: 02/14/14

Air Canister Certification Results

Lab ID: L1401512-01
Client ID: CAN 552 SHELF 8
Sample Location:
Date Collected: 01/15/14 16:26
Date Received: 01/16/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1401512
Report Date: 02/14/14

Air Canister Certification Results

Lab ID: L1401512-01
Client ID: CAN 552 SHELF 8
Sample Location:
Date Collected: 01/15/14 16:26
Date Received: 01/16/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1401512
Report Date: 02/14/14

Air Canister Certification Results

Lab ID: L1401512-01
Client ID: CAN 552 SHELF 8
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/20/14 15:54
Analyst: MB

Date Collected: 01/15/14 16:26
Date Received: 01/16/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1401512
Report Date: 02/14/14

Air Canister Certification Results

Lab ID: L1401512-01
Client ID: CAN 552 SHELF 8
Sample Location:
Date Collected: 01/15/14 16:26
Date Received: 01/16/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.032	0.020	--	0.172	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1401512
Report Date: 02/14/14

Air Canister Certification Results

Lab ID: L1401512-01
Client ID: CAN 552 SHELF 8
Sample Location:
Date Collected: 01/15/14 16:26
Date Received: 01/16/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140

Project Name: 239 10TH AVE
Project Number: 2355.0001Y000

Lab Number: L1403094
Report Date: 02/14/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403094-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1403094-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1403094-03A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	239 10TH AVE	**Lab Number:**	L1403094
Project Number:	2355.0001Y000	**Report Date:**	02/14/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report

Project Name:	239 10TH AVE	**Lab Number:**	L1403094
Project Number:	2355.0001Y000	**Report Date:**	02/14/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Alpha Analytical
320 Forbes Blvd
Mansfield, MA 02048-1806
Tel: 508-822-9300
Fax: 508-822-3288

AIR Chain-of-Custody - NJ

Date Rec'd in Lab: 2/8/14 | ALPHA Job#: L1403094

1 of 1 COCs

Client Contact Information

Company: Roux Associates
Address: 209 SHAFTER ST
City/State/Zip: ISLANDIA, NY 11749
Phone: 631-232-2600
FAX: 631-232-9898
Email: WSHEN@ROUXINC.COM
Site Contact: JEFF WILLS
Site Contact Phone: 631-484-3182

Project Information

Project Name: 239 10TH AVE
Project No: 2355.0001Y000
Site/Location: New York, NY
Project Manager: WENDY SHEN

Analysis Turn-Around Time

Standard (Specify) X
Rush (Specify)

NJ DEP Information

Bureau: Division: Contract No:

Report Information - Data Deliverables:

☐ FAX:
☐ ADEx ☐ Criteria Checker: _____
☒ EMail (standard pdf report)

Billing Information

☐ Same as Client Info PO #:

ALPHA LAB ID (Lab Use Only)	Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field (Hg) (Start)	Canister Pressure in Field (Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure (Hg) (Note1)	Incoming Canister Pressure (Hg) (Note 2)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min) (Note1)	Batch Cert ID (Note 1)	Analysis: TO-15	Analysis: EPA 3C	Matrix: Indoor/Ambient Air	Matrix: Soil Gas
03094-01	SV-1	2/7/14	0908	1025	-30.23	-1.43					0443	447	2.7			X			X
-02	SV-2	↓	0858	1102	-30.10	-10					0282	387	2.7			X			X
-03	SV-3	↓	0903	1101	-29.55	-10					5	181	2.7			X			X

Custody Seals:
Outgoing Seal No: 2590 (refer to crate seal)
Incoming Seal No: 2591 (if applicable)

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum	
Start	27			
Stop	30			

Pressure (inches of Hg)

	Ambient	Maximum	Minimum	
Start				
Stop				

Individual Preparing Canister/Containers and Laboratory Canister Certification
Name: Meridith Prescott
Signature: Meridith Prescott

Footnotes:
(1) Refer to equipment tags for these readings.
(2) Readings provided in data deliverable package.

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by: Keara Heagarty/Lee	Date/Time: 2/7/14 1605
Samples Relinquished by:	Date/Time: 2/7/14 1605	Received by: Abdul Mahdi	Date/Time: 2/7/14 18:35
Relinquished by: Keara Heagarty	Date/Time: 2/7/14 15:35	Received by:	Date/Time:

Abdul Mahdi 2/8/14 0045 — 2/8/14 00:45 rec'd — 2/8/14 04:00 rec'd Mansfield Lab 2/8/14 04:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until all ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.