

843 LEXINGTON AVENUE

BROOKLYN, NEW YORK 11211

Remedial Investigation Report

NYC VCP Site Number: 15CVCP088K

OER Site Number: 15EHAN305K

Prepared for:

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Prepared by:



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REMEDIAL INVESTIGATION REPORT

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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	Photo-ionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Kimberly Somers, 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 Redevelopment Project located 843 Lexington Avenue, Brooklyn, NY, (OER Project Number 15HAN305K). 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.

Kimberly Somers

10/9/2015



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 843 Lexington Avenue in the Bedford Stuyvesant section of the Borough of Brooklyn, New York, and is currently identified as Block 1623 and Lot 73 on the New York City Tax Map. Figure 1 shows the Site location. The lot is 10,000 square feet in size and contains 100 feet of street frontage along Lexington Avenue. The Site is located between Patchen Avenue to the west and Broadway to the east and is bounded by residential uses to the north, south (across Lexington Avenue) and west; and an industrial use to the east. A map of the site boundary is shown on Figure 2.

Currently, Lot 73 is developed with three adjoining one-story vacant manufacturing buildings.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new 7-story mixed-use building with a partial cellar. The first floor will contain a 2,194 square foot (sf) retail space, a residential lobby, a vestibule, package storage room, refuse room, two bathrooms, an elevator, stairwells, a residential corridor, and a rear 21-car private parking garage. A portion of parking garage will be covered by the second floor. The second through sixth floors will consist of residential apartments. The seventh floor will feature a recreation room, bathroom and stairwell. The cellar will be 5,166 sq in size and will contain a 1,250 sf residential storage room, a 1,038 recreational room, a 334 sf bicycle storage area, a 276 sf compactor room, a laundry room, bathroom, two storage closets, a telecommunication room, gas meter room, water meter and sprinkler room, electrical room, a stairwell and an elevator.

The cellar level will require excavation to a total depth of approximately 10 feet below grade across 50% of the Site. The remainder of the site will require excavation to 2 ft bls.

Approximately 1,913 cubic yards (cy) (2,870 tons) of soil will be excavated for the cellar, with an additional 358 cy (537 tons) of soil removed in the area outside of the cellar footprint. The water table is approximately 39.91 to 41.94 feet below grade surface (bgs) and therefore, will not be encountered during excavation.

Layout of the redevelopment plans for the cellar and first floor is presented in Figure 3. The current zoning designation is R6A with a C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

A Phase I Environmental Site Assessment was completed by Middleton Environmental in 2014. According to the Phase I report, the site has been used with several commercial and manufacturing uses, including a construction contracting office, wood furniture manufacturing, metal finishing, general manufacturing, a laundry use, printing company, and an auto garage/auto repair. The 2014 Phase I report identified the following Recognized Environmental Concerns (RECs):

1. the presence of a 550-gallon gasoline UST and an unregistered 3,000 fuel oil UST;
2. petroleum stained areas on the concrete floor throughout the building; and
3. the presence of a subsurface pit (10x10 ft by 2ft in size, constructed on block and cement) and two subsurface drains (approximately 2 x 2 ½ ft in size).

These RECs were addressed during a Phase II investigation conducted in December 2014 by TERMS Environmental Services, Inc. The Phase II investigation included a ground-penetrating radar (GPR) survey in the vicinity of the USTs, and the installation of soil borings. Two soil borings were installed at each end of the tanks to 12 ft below grade and a soil sample was retained from below the invert of each tank (approximately 11 ft below grade for the 3,000 UST and 9 ft for the 500 UST) for chemical analysis of VOCs and SVOCs. Soil borings were also installed adjacent to two drain locations and a pit identified in the Phase I. Soil borings were also installed to a depth of approximately 4 ft below grade adjacent to the subsurface drains and pit. Soil samples were retained from each soil boring at 3.5-4 ft below grade and submitted for SVOC and metal analysis. A grab sample was also collected at the base of a pit in one of the

drains and analyzed for SVOCs and Metals. All soil borings were field screened at one foot intervals with a photo ionization detector (PID). No staining or elevated PID readings were noted for any of the soil borings.

Results of the Phase II investigation found slightly elevated levels of PAHs and metals exceeding Restricted Use Soil Cleanup Objectives (SCOs) for the grab soil sample collected from the masonry pit (sample S7). Results of the subsurface soil samples in the vicinity of the USTs suggest that no release has occurred in either tank location. No VOCs were detected in any of the soil samples above Unrestricted Use SCOs (UUSCOs). Trichloroethene (maximum [max] 0.01 mg/kg) and tetrachloroethene (max 0.02 mg/kg) were detected in several of the deep samples collected around the tank interfaces. Several SVOCs, including bis(2-ethylhexyl)phthalate (max. 110 mg/kg), benzo(b)fluoranthene (1.3 mg/kg), indeno(1,2,3-cd)pyrene (1.1 mg/kg) were detected in one shallow soil sample exceeding UUSCOs. Several metals were detected including arsenic (max. 30 mg/kg), barium (max. 370 mg/kg), copper (max. 1000 mg/kg), iron (max. 74,000 mg/kg), mercury (max. 1.6 mg/kg), nickel (max. 100 mg/kg), and silver (max. 47 mg/kg) exceeding Restricted Residential Use SCOs (RRSCOs). Visual observations of the soil borings indicate the presence of historic fill to depths of 1.5 ft below grade.

Areas of Concern (AOCs) identified for the Site include:

1. The historic usage of the Site for various manufacturing uses, a potential former dry cleaner use, and former auto repair use;
2. Presence of two USTs (550-gallon and an unregistered 3,000 UST);
3. The presence of historic fill material; and
4. The Site is identified as being assigned an E-designation (E-285) for Hazmat, Noise and Air Quality as part of the Bedford Stuyvesant North Rezoning action completed by the City on October 11, 2012 (CEQR 12DCP156Y).

Summary of the Work Performed under the Remedial Investigation

TERMS performed the following scope of work at the Site in April through July 2015:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed five soil borings and one verification sample across the Site, and collected 11 soil samples for chemical analysis to evaluate soil quality;
3. Collected five soil grab samples (S1A through S5A) from the base of Drain 2 to delineate copper concentrations;
4. Installed four groundwater monitoring wells throughout the Site to establish groundwater flow and collected four groundwater samples for chemical analysis to evaluate groundwater quality; and
5. Installed seven soil gas implants and collected 13 soil gas samples for chemical analysis (samples were collected at varying depths at four locations).

Summary of Environmental Findings from the Phase II ESA and Remedial Investigation

1. The elevation of the Site is approximately 53 feet.
2. Depth to groundwater is ranges from 39.91 to 41.94 feet below sidewalk grade.
3. Groundwater flow is generally towards the northeast.
4. Depth to bedrock is at the Site is greater than 100 feet.
5. The stratigraphy of the Site consists of approximately 2 feet of historic fill, underlain by native brown coarse sand and clay.
6. Soil/fill samples results were compared to New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives and Restricted Residential Use Soil Cleanup Objectives (SCOs) as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill results no VOCs detected above SCOs in any of the soil samples. Trichloroethene (max 0.01 mg/kg) and tetrachloroethene (max 0.11 mg/kg) were each detected in several of samples. No pesticides or PCBs were detected in any of the soil samples. Several SVOCs consisting of Polycyclic Aromatic Hydrocarbons (PAHs) were detected, including bis(2-ethylhexyl)phthalate (110,000 µg/kg), benzo(b)fluoranthene (1,300 µg/kg), indeno(1,2,3-cd)pyrene (11,000 µg/kg), exceeding Restricted Residential Use SCOs in one of the shallow soil samples. Several metals, including arsenic (30 mg/kg), barium (370 mg/kg), copper (1,000 mg/kg), iron (max. 74,000 mg/kg), mercury

(max. 1.6 mg/kg), and silver (47 mg/kg) exceeded Restricted Residential SCOs. Overall, the soil results were consistent with data identified at sites with urban fill material in NYC.

7. Groundwater sample results from the 2015 RI were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Monitoring wells MW2 and MW3 were analyzed for VOCs and total metals only; MW1 and MW4 were analyzed for VOCs, SVOCs, pesticides, PCBs, and total metals. Monitoring well MW-4 was also analyzed for dissolved metals. Groundwater results showed no SVOCs or PCBs in either MW1 or MW4. Several VOCs were detected in all four groundwater samples, including tetrachloroethene (max. 210 µg/L), trichloroethene (max. 120 µg/L) and cis-1,2-Dichloroethene (6 µg/L), exceeding their respective GQS. Several dissolved metals were identified in groundwater, but only sodium (22,800 mg/L), exceeded its respective GQS. Total metals including chromium (max. 328.1 mg/L), copper (max. 366.6 mg/L), lead (max. 101.6 mg/L), iron (max. 15,800 mg/L), magnesium (max. 43,000 mg/L), nickel (max. 437.2 mg/L), selenium (12 mg/L), sodium (max. 45,400 mg/L), and thallium (1.2 mg/L) exceeded their respective GQS. Sodium was the only GQS exceedance in the filtered sample collected at MW-4.
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 dated October 2006. Soil vapor samples collected during the RI showed elevated levels of petroleum-related VOCs and high levels of chlorinated VOCs. The total concentration of petroleum-related VOCs (BTEX) ranged from 13.3 µg/m³ to 43.51 µg/m³. Highest concentrations were detected for trichloroethene (max. of 19,200 µg/m³). The chlorinated VOCs, trichloroethene (TCE) and tetrachloroethene (PCE) were detected in all soil gas samples, ranging from 446 µg/m³ to 19,200 µg/m³ and 20.4 µg/m³ to 9,090 µg/m³, respectively. Carbon tetrachloride and 1,1,1-trichloroethane (TCA) were not detected in any of the soil gas samples. Concentrations of the chlorinated VOCs were above the monitoring level ranges established within the NYSDOH soil vapor guidance matrix.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

The Marcal Group has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 10,000 square foot Site located at 843 Lexington Avenue in the Bedford Stuyvesant section of Brooklyn, New York. The Site will be redeveloped with a new 7-story mixed-use apartment building. The portion of the RI work conducted on the Site was conducted in 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 843 Lexington Avenue in the Bedford Stuyvesant of the Borough of Brooklyn, New York, and is currently identified as Block 1623 and Lot 73 on the New York City Tax Map. Figure 1 shows the Site location. The lot is irregularly shaped and approximately 10,000 square feet (sf) in total with 100 feet of street frontage along Lexington Avenue. The Site is located between Whipple Street to the north and Flushing Avenue to the south. A map of the site boundary is shown on Figure 2.

Currently, Lot 73 is developed with three adjoining one-story vacant manufacturing buildings.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new 7-story mixed-use building with a partial cellar. The first floor will contain a 2,194 square foot (sf) retail space, a residential lobby, a vestibule, package storage room, refuse room, two bathrooms, an elevator, stairwells, a residential corridor, and a rear 21-car private parking garage. A portion of parking garage will be covered by the second floor. The second through sixth floors will consist of residential apartments. The seventh floor will feature a recreation room, bathroom and stairwell. The cellar will be 5,166 sq in size and will contain a 1,250 sf residential storage room, a 1,038 recreational room, a 334 sf bicycle storage area, a 276 sf compactor room, a laundry room, bathroom, two

storage closets, a telecommunication room, gas meter room, water meter and sprinkler room, electrical room, a stairwell and an elevator.

The cellar level will require excavation to a total depth of approximately 10 feet below grade across 50% of the Site. The remainder of the site will require excavation to 2 ft bls. Approximately 1,913 cubic yards (cy) (2,870 tons) of soil will be excavated for the cellar, with an additional 358 cy (537 tons) of soil removed in the area outside of the cellar footprint.. The water table is expected at approximately 40 to 42 feet below grade surface (bgs) and therefore, will not be encountered during excavation.

Layout of the redevelopment plans for the cellar and first floor is presented in Figure 3. The current zoning designation is R6A with a C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

The area immediately surrounding Site consists of residential buildings to the north, west and south (across Lexington Avenue); and an industrial building to the east. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. An adult day health center (Jacquelyn Hernandez Adult Day Health Center) is located approximately 100 feet southeast of the site. The Brooklyn Excelsior Charter School is located approximately 500 feet southwest of the site. No other schools, daycare facilities, or hospitals were identified within a 500 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Adjacent property	<u>Block 1623, Lots 13, 14, 15, 16, 17 and 18</u> – 1012 through 1022 Greene Avenue: Six separate lots: five 1,600 sf residential lots and one 2,000 sf residential lot developed with multiple family residential dwellings.
South – Across Lexington Avenue	<u>Block 1628, Lots 13, 14, 15, 16, and 17 - , 24, 25, 26 27</u> – 798 through 806 Lexington Avenue. Five separate lots, each 1,700 sf in area developed with 1 and 2 family residential dwellings.
East – Adjacent property	<u>Block 1623, Lot 70</u> - 853 Lexington Avenue: A 7,358 sf industrial/manufacturing building.
West – Adjacent property	<u>Block 1623, Lot 77</u> - 841 Lexington Avenue: A 3,100 sf lot developed with a two-story residential building.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

A Phase I Environmental Site Assessment was completed by Middleton Environmental in 2014. According to the Phase I report, the site has been used with several commercial and manufacturing uses, including a construction contracting office, wood furniture manufacturing, metal finishing, general manufacturing, a laundry use, printing company, and an auto garage/auto repair. The 2014 Phase I report identified the following Recognized Environmental Concerns (RECs):

1. the presence of a 550-gallon gasoline UST and an unregistered 3,000 fuel oil UST;
2. petroleum stained areas on the concrete floor throughout the building; and
3. the presence of a subsurface pit (10x10 ft by 2ft in size, constructed on block and cement) and two subsurface drains (approximately 2 x 2 ½ ft in size).

2.2 Previous Investigations

A Phase II investigation was conducted at the Site in December 2014 by TERMS Environmental Services, Inc. The Phase II investigation included a ground-penetrating radar (GPR) survey in the vicinity of the USTs, and the installation of soil borings. Two soil borings were installed at each end of the tanks to 12 ft below grade and a soil sample was retained from below the invert of each tank (approximately 11 ft below grade for the 3,000 UST and 9 ft for the 500 UST) for chemical analysis of VOCs and SVOCs. Soil borings were also installed adjacent to two drain locations and a pit identified in the Phase I. Soil borings were also installed to a depth of approximately 4 ft below grade adjacent to the subsurface drains and pit. Soil samples were retained from each soil boring at 3.5-4 ft below grade and submitted for SVOC and metal analysis. A grab sample was also collected at the base of a pit in one of the drains and analyzed for SVOCs and Metals. All soil borings were field screened at one foot intervals with a photo ionization detector (PID). No staining or elevated PID readings were noted for any of the soil borings.

Results of the Phase II investigation found slightly elevated levels of PAHs and metals exceeding Restricted Use Soil Cleanup Objectives (SCOs) for the grab soil sample collected from the

masonry pit (sample S7). Results of the subsurface soil samples in the vicinity of the USTs suggest that no release has occurred in either tank location. No VOCs were in any of the soil samples above Unrestricted Use SCOs (UUSCOs). Trichloroethene (maximum [max] 0.01 mg/kg) and tetrachloroethene (max 0.02 mg/kg) were detected in several of the deep samples collected around the tank interfaces. Several SVOCs, including bis(2-ethylhexyl)phthalate (max. 110 mg/kg), benzo(b)fluoranthene (1.3 mg/kg), indeno(1,2,3-cd)pyrene (1.1 mg/kg) were detected in one shallow soil sample exceeding UUSCOs. Several metals were detected including arsenic (max. 30 mg/kg), barium (max. 370 mg/kg), copper (max. 1000 mg/kg), iron (max. 74,000 mg/kg), mercury (max. 1.6 mg/kg), nickel (max. 100 mg/kg), and silver (max. 47 mg/kg) exceeding Restricted Residential Use SCOs (RRSCOs). Visual observations of the soil borings indicate the presence of historic fill to depths of 1.5 ft below grade.

2.3 Site Inspection

On November 25, 2014, TERMS performed a site inspection. At the time of the inspection, the Site was currently vacant and developed with a partial two-story warehouse. Visual observations noted two drain locations and a masonry pit location. Drain 1 was noted to be a 2 x 2½ ft brick and mortar-lined pit situated 2 ½ ft below grade. A second drain “Drain 2 Area” was described as containing two pit locations. Drain 2 A was a 1x1x1 ft shallow wood brick and mortar pit. Drain 2B was noted to be a 2 x 2½ x 2½ ft brick and mortar-lined pit containing a pipe and valve. The base of the pit appeared to be not of sound integrity. The masonry pit was approximately 10 x 10 x 2 ft, constructed of block and cement.

2.4 Areas of Concern

Areas of Concern (AOCs) identified for the Site include:

1. The historic usage of the Site for various manufacturing uses, a potential former dry cleaner use, and former auto repair use;
2. Presence of two USTs (550-gallon and an unregistered 3,000-gallon UST);
3. The presence of historic fill material; and
4. The Site identified as being assigned an E-designation (E-285) for Hazmat, Noise and Air Quality as part of the Bedford Stuyvesant North Rezoning action completed by the City on October 11, 2012 (CEQR 12DCP156Y).

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Kimberly Somers.

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.

3.3 Materials Management

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

4.0 REMEDIAL INVESTIGATION ACTIVITIES

TERMS Environmental Services, Inc. performed the following scope of work at the Site in April through July 2015:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed five soil borings and one verification sample across the Site, and collected 11 soil samples for chemical analysis to evaluate soil quality;
3. Collected five soil grab samples (S1A through S5A) from the base of Drain 2 to delineate copper concentrations;
4. Installed four groundwater monitoring wells at the Site to establish groundwater flow and collected four groundwater samples for chemical analysis to evaluate groundwater quality; and
5. Installed seven soil gas implants and collected 13 soil gas samples for chemical analysis (samples were collected at varying depths at four locations).

4.1 Geophysical Investigation

A geophysical investigation was performed as a part of the Phase II due diligence investigation conducted on November 25, 2014 by TERMS. The GPR survey was performed in the area of suspect USTs. The results of the survey determined the location of the piping for the 500-gallon gasoline UST and 3,000-gallon fuel oil UST. The gasoline UST was determined to be 4 ft diameter, 6 ft in length, and 40 inches below grade. The piping associated with the gasoline UST was located 18 inches below grade and extended approximately 15 ft to a remote fill located in the sidewalk adjacent to Lexington Avenue. The fuel oil UST was determined to be 7ft in diameter, 12 ft in length, and 25 inches below grade. The piping associated with the fuel oil UST was located 8 inches below grade and extended approximately 15 ft to a remote fill located in the sidewalk. No anomalies were noted.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

On April 8, 2015, five soil borings (S1/S2, S3/S4, S5/S6, S7/S8 and S9/S10) were installed at the Site. An additional boring (SA) was installed at the location of S7/S8 on May 29, 2015 based on the tetrachloroethylene concentration detected at this location. All boring locations are shown on Figure 5. The soil boring locations were chosen to gain representative soil quality information across the Site. Soil samples from borings S1/S2, S3/S4, S5/S6, S7/S8 and S9/S10 were collected continuously from grade to a final depth of approximately 14 feet below existing grade; and boring SA to groundwater (approximately 40 ft below grade) using a four-foot steel macro core sampler with acetate liners and Geoprobe direct-push equipment. Soil samples were retained from intervals 1-1.5 ft and 3-3.5 ft in soil borings S1/S2 and S7/S8; from 1-1.5 ft and 11-11.5 ft in borings S3/S4, S5/S6, and S9/S10; and at a shallow interval (approximately 1-1.5 ft) in boring SA.

Soil boring details are provided in Table 1. Boring logs for S1/S2, S3/S4 and S7/S8 were prepared by a Qualified Environmental Professional and are attached in Attachment B.

Groundwater Monitoring Well Construction

Four temporary 2-inch diameter PVC monitoring wells (MW1 through MW4) were installed at the approximate locations shown on Figure 5 with approximately 20 feet of 0.010 slot screen set to intersect the water table. Three groundwater wells were installed at the site as part of the initial investigation, and a fourth well was installed in the northwest corner of the site based on the tetrachloroethylene and trichloroethylene concentrations detected in the samples. Since groundwater was encountered at approximately 40 feet below grade, monitoring wells were installed to a depths ranging from 55 to 70 feet. Monitoring well sampling details are provided in Table 1. Monitoring well locations are shown in Figure 5.

Survey

Locations of monitoring wells MW1 through MW3 were surveyed to the nearest 0.10 foot with respect to two or more permanent site features.

Water Level Measurement

Approximate groundwater level measurements were collected using a Solinst oil/water interface meter to ensure the surface of the water table was within the screened section of the monitoring well. No free product was reported for any of the four monitoring wells. Water level data is included in Table 1.

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 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

Eleven soil samples from the soil borings, five soil samples grabs (S1A through S5A), and one duplicate were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Table 2. Figure 5 shows the location of samples collected during this RI. Laboratories and analytical methods for soil samples collected during the RI are shown below.

The soil samples were placed in a cooler with ice and submitted for analysis with proper chain of custody to Alpha Analytical Laboratories of 35 Whitney Road, Mahway, New Jersey, a New York State ELAP certified environmental laboratory (ELAP Certification Nos. 11148 and 11627). All soil samples retained from borings S1/S2, S3/S4, S5/S6, S7/S8 and S9/S10 were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082, and target analyte list (TAL) metals. Soil retained from soil boring SA was analyzed

for the presence of volatile organic compounds (VOCs) by EPA Method 8260. The soil grab samples (S1A through S5A) were analyzed for the presence of copper only.

Groundwater Sampling

Four groundwater samples and one duplicate sample were collected for chemical analysis during this RI. Groundwater samples were collected from the monitoring wells utilizing dedicated polyethylene tubing and a peristaltic pump. Four groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted to Alpha Analytical Laboratories. Monitoring wells MW2 and MW3 were analyzed for VOCs by EPA Method 8260 and TAL metals (total); MW1 and MW4 were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and TAL metals (total); and MW-4 was also analyzed for dissolved TAL metals. Groundwater sample collection data is reported in Table 3. Sampling logs with information on purging and sampling of groundwater monitoring wells are included in Appendix C. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Eight soil vapor probes were installed and four soil vapor samples were collected for chemical analysis during this RI. Four soil vapor probes were installed with Geoprobe™ equipment to a depth of approximately 10-12 feet, approximately 1 foot above the water table interface. Based on the tetrachloroethylene and trichloroethylene concentrations detected in these samples, four additional soil vapor probes were installed at the Site. A sample was collected at each location at a depth of 10, 20, and 30 feet below grade surface. The eight soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 4. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*.

The soil vapor probes were installed using Geoprobe™ equipment and tooling. The approximate location of each of the soil vapor probes is shown on Figure 5. The vapor probes that were installed were the Geoprobe™ Model AT86 series, which are constructed of a 6-inch length of double woven stainless steel wire. Each probe was attached to ¼ inch polyethylene tubing which

extended approximately 18 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the probe to a height of approximately 1 foot above the bottom of the probe. The remainder of the borehole was sealed with a bentonite slurry to the surface.

Soil vapor sampling for the soil vapor probes was conducted on April 8th, June 1st and July 14th 2015. Prior to sampling, each sampling location was tested to ensure a proper surface seal had been obtained. In accordance with NYSDOH guidance (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005), a tracer gas (helium) was used as a quality assurance/quality control device to verify the integrity of the sampling point seal prior to collecting the samples. Prior to testing and collecting samples, the surface immediately surrounding the polyethylene tubing of the vapor implant was sealed using a 1 foot ft by 1 ft square sheet of 2 mil HDPE plastic firmly adhered to a wetted layer of granular bentonite. The seal was then tested by enriching the air space above the seal with a tracer gas (helium) while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-Gas Detector) for a minimum of 15 minutes. The tracer gas test procedure was employed at all three soil vapor sampling locations. No surface seal leaks were observed at any of the locations.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the surface tube of each of the three vapor implants. Prior to initiating sample collection, sample identification, canister number, date and start time were recorded on tags attached to each canister and in a bound field note book. Sampling then proceeded by fully opening the flow control valve on each canister in turn. Immediately after opening the flow control valve on a canister, the initial vacuum (inches of mercury) was recorded in the field book and on the sample tag. When the vacuum level in the canister was between 5 and 8 inches of mercury (approx 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

The soil gas sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on a sample log sheet. Samples were submitted to Alpha Analytical for laboratory analysis of VOCs EPA Method TO-15.

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 Phoenix Environmental Laboratories
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Alpha Analytical Laboratories
Chemical Analytical Methods	Soil and groundwater analytical methods: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 4.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The stratigraphy of the Site surrounding the existing foundation slab from the surface down consists of up to 1.5 feet of historic fill, underlain by brown coarse sand, clay at a depth of approximately 14 ft and hard pack silt/till.

Hydrogeology

A table of water level data for the monitoring wells is included in Table 1. The average depth to groundwater is approximately 40 to 42 feet. Groundwater flow beneath the site is generally northeast.

5.2 Soil Chemistry

1. Soil/fill samples from the RI and the Phase II ESA results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCO) as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill results no VOCs detected above SCOs in any of the soil samples. Trichloroethene (max 0.01 mg/kg) and tetrachloroethene (max 0.11 mg/kg) were each detected in several of samples. No pesticides or PCBs were detected in any of the soil samples. Several SVOCs consisting of Polycyclic Aromatic Hydrocarbons (PAHs) were detected, including bis(2-ethylhexyl)phthalate (110,000 µg/kg), benzo(b)fluoranthene (1,300 µg/kg), indeno(1,2,3-cd)pyrene (11,000 µg/kg), exceeding Restricted Residential Use SCOs in one of the shallow soil samples. Several metals, including arsenic (30 mg/kg), barium (370 mg/kg), copper (1,000 mg/kg), iron (max. 74,000 mg/kg), mercury (max. 1.6 mg/kg), silver (47 mg/kg) exceeded Restricted Residential SCOs. Overall, the soil results were consistent with data identified at sites with urban fill material in NYC.

5.3 Groundwater Chemistry

1. Groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Monitoring wells MW2 and MW3 were analyzed for VOCs and total metals only; MW1 and MW4 were analyzed for VOCs, SVOCs, pesticides, PCBs, and total metals. Monitoring well MW-4 was also analyzed for dissolved metals. Groundwater results showed no SVOCs or PCBs in either MW1 or MW4. Several VOCs were detected in all four groundwater samples, including tetrachloroethene (max. 210 µg/L), trichloroethene (max. 120 µg/L) and cis-1,2,-Dichloroethene (6 µg/L), exceeding their respective GQS. Several dissolved metals were identified in groundwater, but only sodium (22,800 mg/L), exceeded its respective GQS. Total metals including chromium (max. 328.1 mg/L), copper (max. 366.6 mg/L), lead (max. 101.6 mg/L), iron (max. 15,800 mg/L), magnesium (max. 43,000 mg/L), nickel (max. 437.2 mg/L), selenium (12 mg/L), sodium (max. 45,400 mg/L), and thallium (1.2 mg/L) exceeded their respective GQS. Sodium was the only GQS exceedance in the filtered sample collected at MW-4.

Based on the lack of elevated concentrations of VOCs on-Site soils, an on-Site source of groundwater contamination is not suspected.

5.4 Soil Vapor Chemistry

1. Soil vapor results collected during the RI were compared to the compounds listed in Table 3.1 Air Guidance Values derived by the New York State Department of Health (NYSDOH) located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006. 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 dated October 2006. Soil vapor samples collected during the RI showed elevated levels of petroleum-related VOCs and high levels of chlorinated VOCs. The total concentration of petroleum-related VOCs (BTEX) ranged from 13.3 µg/m³ to 43.51 µg/m³. Highest concentrations were

detected for trichloroethene (max. of 19,200 $\mu\text{g}/\text{m}^3$). The chlorinated VOCs, trichloroethene (TCE) and tetrachloroethene (PCE) were detected in all soil gas samples, ranging from 446 $\mu\text{g}/\text{m}^3$ to 19,200 $\mu\text{g}/\text{m}^3$ and 20.4 $\mu\text{g}/\text{m}^3$ to 9,090 $\mu\text{g}/\text{m}^3$, respectively. Carbon tetrachloride and 1,1,1-trichloroethane (TCA) were not detected in any of the soil gas samples. Concentrations of the chlorinated VOCs were above the monitoring level ranges established within the NYSDOH soil vapor guidance matrix.

5.4 Prior Activity

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

5.5 Impediments to Remedial Action

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

TABLES

Table 1
 843 Lexington Avenue
 Brooklyn, NY
 Soil Boring / Well Information

SAMPLE ID	Date	Total Depth (ft)	Diameter (in)	Construction Materials	Screen Length (ft)	DTW (ft)	Survey Reading	Casing Elevation	GW ELV
S1	Dec. 2014	12	2	Hollow Stem Auger	-	-	-	-	-
S2	Dec. 2014	12	2	Hollow Stem Auger	-	-	-	-	-
S3	Dec. 2014	12	2	Hollow Stem Auger	-	-	-	-	-
S4	Dec. 2014	12	2	Hollow Stem Auger	-	-	-	-	-
S5	Dec. 2014	4	2	Hollow Stem Auger	-	-	-	-	-
S6	Dec. 2014	4	2	Hollow Stem Auger	-	-	-	-	-
S7	Dec. 2014	4	2	Hollow Stem Auger	-	-	-	-	-
S1/S2	April 2015	14	2	Hollow Stem Auger	-	-	-	-	-
S3/S4	April 2015	14	2	Hollow Stem Auger	-	-	-	-	-
S5/S6	April 2015	14	2	Hollow Stem Auger	-	-	-	-	-
S7/S8	April 2015	14	2	Hollow Stem Auger	-	-	-	-	-
S9/S10	April 2015	14	2	Hollow Stem Auger	-	-	-	-	-
S1A-S5A	July 2015	4	2	Hollow Stem Auger	-	-	-	-	-
MW1	April 2015	70	2	PVC	20.00	41.18	3.16	96.84	55.66
MW2	April 2015	55	2	PVC	20.00	39.91	5.21	94.79	54.88
MW3	April 2015	55	2	PVC	20.00	41.94	3.89	96.11	54.17
MW4	July 2015	55	2	PVC	20.00	40.68	4.44	95.56	54.88

Table 2. Soil Analytical Results

LOCATION	S1	S2	S3	S4	S5	S6	S7	S7												
SAMPLING DATE	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014												
LAB SAMPLE ID	L1429366-01	L1429366-02	L1429366-03	L1429366-04	L1429366-05	L1429366-06	L1429366-07	L1429366-07 R1												
SAMPLE DEPTH (ft.)	10.5-11	10.5-11	9-9.5	9-9.5	3.5-4	3.5-4	0.5-1.5													
CasNum	NY-CP51	NY-RESR	NY-UNRE	Units	Qual	Qual	Qual	Qual												
General Chemistry - Westborough Lab																				
Solids, Total	NONE		%	93.3	82.2	82.3	68.9	87.2	92.4	33.9										
Semivolatiles Organics by GC/MS - Westborough Lab																				
Acenaphthene	83-32-9	20	100	20 mg/kg	0.14	U	0.16	U	0.16	U	0.19	U	0.15	U	0.14	U	0.39	U		
1,2,4-Trichlorobenzene	120-82-1			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Hexachlorobenzene	118-74-1		0.41	0.33 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.11	U	0.29	U		
Bis(2-chloroethyl)ether	111-44-4			mg/kg	0.16	U	0.18	U	0.18	U	0.22	U	0.17	U	0.16	U	0.44	U		
2-Chloronaphthalene	91-58-7			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
1,2-Dichlorobenzene	95-50-1		100	1.1 mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
1,3-Dichlorobenzene	541-73-1		17	2.4 mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
1,4-Dichlorobenzene	106-46-7		9.8	1.8 mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
3,3'-Dichlorobenzidine	91-94-1			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
2,4-Dinitrotoluene	121-14-2			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
2,6-Dinitrotoluene	606-20-2		1.03	mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Fluoranthene	206-44-0	100	100	100 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.17	U	1.4	U		
4-Chlorophenyl phenyl ether	7005-72-3			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
4-Bromophenyl phenyl ether	101-55-3			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Bis(2-chloroisopropyl)ether	108-60-1			mg/kg	0.21	U	0.24	U	0.24	U	0.29	U	0.22	U	0.21	U	0.59	U		
Bis(2-chloroethoxy)methane	111-91-1			mg/kg	0.19	U	0.21	U	0.22	U	0.26	U	0.2	U	0.19	U	0.53	U		
Hexachlorobutadiene	87-68-3			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Hexachlorocyclopentadiene	77-47-4			mg/kg	0.5	U	0.56	U	0.57	U	0.69	U	0.53	U	0.51	U	1.4	U		
Hexachloroethane	67-72-1			mg/kg	0.14	U	0.16	U	0.16	U	0.19	U	0.15	U	0.14	U	0.39	U		
Isophorone	78-59-1		100	mg/kg	0.16	U	0.18	U	0.18	U	0.22	U	0.17	U	0.16	U	0.44	U		
Naphthalene	91-20-3	12	100	12 mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Nitrobenzene	98-95-3		3.7	mg/kg	0.16	U	0.18	U	0.18	U	0.22	U	0.17	U	0.16	U	0.44	U		
NitrosoDiPhenyl(Amine)(NDPA)/DF	86-30-6			mg/kg	0.14	U	0.16	U	0.16	U	0.19	U	0.15	U	0.14	U	0.39	U		
n-Nitrosodi-n-propylamine	621-64-7			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Bis(2-Ethylhexyl)phthalate	117-81-7		50	mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.089	J	0.097	J	61	E	110	
Butyl benzyl phthalate	85-68-7		100	mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Di-n-butylphthalate	84-74-2		100	mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.95	U		
Di-n-octylphthalate	117-84-0		100	mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Diethyl phthalate	84-66-2		100	mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Dimethyl phthalate	131-11-3		100	mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Benzo(a)anthracene	56-55-3	1	1	1 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.081	J	0.94	U		
Benzo(a)pyrene	50-32-8	1	1	1 mg/kg	0.14	U	0.16	U	0.16	U	0.19	U	0.15	U	0.097	J	0.93	U		
Benzo(b)fluoranthene	205-99-2	1	1	1 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.1	J	1.3	U		
Benzo(k)fluoranthene	207-08-9	0.8	1	0.8 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.11	U	0.49	U		
Chrysene	218-01-9	1	1	1 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.075	J	0.87	U		
Acenaphthylene	208-96-8	100	100	100 mg/kg	0.14	U	0.16	U	0.16	U	0.19	U	0.15	U	0.14	U	0.13	U		
Anthracene	120-12-7	100	100	100 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.11	U	0.24	U		
Benzo(ghi)perylene	191-24-2	100	100	100 mg/kg	0.14	U	0.16	U	0.16	U	0.19	U	0.15	U	0.074	J	0.91	U		
Fluorene	86-73-7	30	100	30 mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Phenanthrene	85-01-8	100	100	100 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.15	U	0.63	U		
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.33 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.11	U	0.29	U		
Indeno(1,2,3-cd)Pyrene	193-39-5	0.5	0.5	0.5 mg/kg	0.14	U	0.16	U	0.16	U	0.19	U	0.15	U	0.12	J	1.1	U		
Pyrene	129-00-0	100	100	100 mg/kg	0.1	U	0.12	U	0.12	U	0.14	U	0.11	U	0.16	U	1.3	U		
Biphenyl	92-52-4			mg/kg	0.4	U	0.45	U	0.46	U	0.55	U	0.42	U	0.4	U	1.1	U		
4-Chloroaniline	106-47-8		100	mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
2-Nitroaniline	88-74-4			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
3-Nitroaniline	99-09-2			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
4-Nitroaniline	100-01-6			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Dibenzofuran	132-64-9		14	7 mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
2-Methylnaphthalene	91-57-6		0.41	mg/kg	0.21	U	0.24	U	0.24	U	0.29	U	0.22	U	0.21	U	0.59	U		
1,2,4,5-Tetrachlorobenzene	95-94-3			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U		
Acetophenone	98-86-2			mg/kg	0.17	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.59	U		

LOCATION	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	L150'											
SAMPLING DATE	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015											
LAB SAMPLE ID	L1507133-01	L1507133-02	L1507133-03	L1507133-04	L1507133-05	L1507133-06	L1507133-07	L1507133-08	L1507133-09	L1507133-10	L150'											
SAMPLE TYPE																						
SAMPLE DEPTH (ft.)																						
CasNum	NY-UNRE Units	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual											
General Chemistry - Westborough Lab																						
Solids, Total	NONE	%	86	85.8	85	89.8	80.8	73	86	80	88.2	92.9										
Organochlorine Pesticides by GC - Westborough Lab																						
Delta-BHC	319-86-8	0.04 mg/kg	0.00183	U	0.00175	U	0.00182	U	0.00173	U	0.00186	U	0.00213	U	0.00177	U	0.00198	U	0.00177	U	0.00166	U
Lindane	58-89-9	0.1 mg/kg	0.000763	U	0.00073	U	0.00076	U	0.00072	U	0.00078	U	0.00089	U	0.00074	U	0.00082	U	0.00074	U	0.00069	U
Alpha-BHC	319-84-6	0.02 mg/kg	0.000763	U	0.00073	U	0.00076	U	0.00072	U	0.00078	U	0.00089	U	0.00074	U	0.00082	U	0.00074	U	0.00069	U
Beta-BHC	319-85-7	0.036 mg/kg	0.00183	U	0.00175	U	0.00182	U	0.00173	U	0.00186	U	0.00213	U	0.00177	U	0.00198	U	0.00177	U	0.00166	U
Heptachlor	76-44-8	0.042 mg/kg	0.000916	U	0.00088	U	0.00091	U	0.00087	U	0.00093	U	0.00107	U	0.00088	U	0.00099	U	0.00088	U	0.00083	U
Aldrin	309-00-2	0.005 mg/kg	0.00183	U	0.00175	U	0.00182	U	0.00173	U	0.00186	U	0.00213	U	0.00177	U	0.00198	U	0.00177	U	0.00166	U
Heptachlor epoxide	1024-57-3	mg/kg	0.00343	U	0.00328	U	0.00342	U	0.00324	U	0.0035	U	0.004	U	0.00331	U	0.00371	U	0.00332	U	0.00311	U
Endrin	72-20-8	0.014 mg/kg	0.000763	U	0.00073	U	0.00076	U	0.00072	U	0.00078	U	0.00089	U	0.00074	U	0.00082	U	0.00074	U	0.00069	U
Endrin ketone	53494-70-5	mg/kg	0.00183	U	0.00175	U	0.00182	U	0.00173	U	0.00186	U	0.00213	U	0.00177	U	0.00198	U	0.00177	U	0.00166	U
Dieldrin	60-57-1	0.005 mg/kg	0.00114	U	0.00109	U	0.00114	U	0.00108	U	0.00116	U	0.00133	U	0.0011	U	0.00124	U	0.0011	U	0.00104	U
4,4'-DDE	72-55-9	0.0033 mg/kg	0.00183	U	0.00175	U	0.00182	U	0.00173	U	0.00186	U	0.00213	U	0.00177	U	0.00198	U	0.00177	U	0.00166	U
4,4'-DDD	72-54-8	0.0033 mg/kg	0.00183	U	0.00175	U	0.00182	U	0.00173	U	0.00186	U	0.00213	U	0.00177	U	0.00198	U	0.00177	U	0.00166	U
4,4'-DDT	50-29-3	0.0033 mg/kg	0.00343	U	0.00328	U	0.00342	U	0.00324	U	0.0035	U	0.004	U	0.00331	U	0.00371	U	0.00332	U	0.00311	U
Endosulfan I	959-98-8	2.4 mg/kg	0.00183	U	0.00175	U	0.00182	U	0.00173	U	0.00186	U	0.00213	U	0.00177	U	0.00198	U	0.00177	U	0.00166	U
Endosulfan II	33213-65-9	2.4 mg/kg	0.00183	U	0.00175	U	0.00182	U	0.00173	U	0.00186	U	0.00213	U	0.00177	U	0.00198	U	0.00177	U	0.00166	U
Endosulfan sulfate	1031-07-8	2.4 mg/kg	0.000763	U	0.00073	U	0.00076	U	0.00072	U	0.00078	U	0.00089	U	0.00074	U	0.00082	U	0.00074	U	0.00069	U
Methoxychlor	72-43-5	mg/kg	0.00343	U	0.00328	U	0.00342	U	0.00324	U	0.0035	U	0.004	U	0.00331	U	0.00371	U	0.00332	U	0.00311	U
Toxaphene	8001-35-2	mg/kg	0.0343	U	0.0328	U	0.0342	U	0.0324	U	0.035	U	0.04	U	0.0331	U	0.0371	U	0.0332	U	0.0311	U
cis-Chlordane	5103-71-9	0.094 mg/kg	0.00229	U	0.00219	U	0.00228	U	0.00216	U	0.00233	U	0.00267	U	0.00221	U	0.00247	U	0.00221	U	0.00207	U
trans-Chlordane	5103-74-2	mg/kg	0.00229	U	0.00219	U	0.00228	U	0.00216	U	0.00233	U	0.00267	U	0.00221	U	0.00247	U	0.00221	U	0.00207	U
Chlordane	57-74-9	mg/kg	0.0149	U	0.0142	U	0.0148	U	0.0141	U	0.0151	U	0.0173	U	0.0144	U	0.0161	U	0.0144	U	0.0135	U
Polychlorinated Biphenyls by GC - Westborough Lab																						
Aroclor 1016	12674-11-2	0.1 mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
Aroclor 1221	11104-28-2	0.1 mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
Aroclor 1232	11141-16-5	0.1 mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
Aroclor 1242	53469-21-9	0.1 mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
Aroclor 1248	12672-29-6	0.1 mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
Aroclor 1254	11097-69-1	0.1 mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
Aroclor 1260	11096-82-5	0.1 mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
Aroclor 1262	37324-23-5	0.1 mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
Aroclor 1268	11100-14-4	0.1 mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
PCBs, Total	1336-36-3	mg/kg	0.0373	U	0.0382	U	0.0374	U	0.0354	U	0.0406	U	0.0443	U	0.0373	U	0.0406	U	0.037	U	0.0352	U
Semivolatile Organics by GC/MS - Westborough Lab																						
Acenaphthene	83-32-9	20 mg/kg	0.15	U	0.15	U	0.16	U	0.14	U	0.16	U	0.18	U	0.15	U	0.16	U	0.15	U	0.14	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Hexachlorobenzene	118-74-1	0.33 mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.13	U	0.11	U	0.12	U	0.11	U	0.11	U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.17	U	0.17	U	0.18	U	0.16	U	0.18	U	0.2	U	0.17	U	0.18	U	0.17	U	0.16	U
2-Chloronaphthalene	91-58-7	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
1,2-Dichlorobenzene	95-50-1	1.1 mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
1,3-Dichlorobenzene	541-73-1	2.4 mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
1,4-Dichlorobenzene	106-46-7	1.8 mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
2,4-Dinitrotoluene	121-14-2	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Fluoranthene	206-44-0	100 mg/kg	0.11	U	0.11	U	0.039	J	0.11	U	0.2	U	0.13	U	0.041	J	0.12	U	0.11	U	0.11	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Bis(2-chloroisopropyl)ether	39638-32-9	mg/kg	0.23	U	0.23	U	0.23	U	0.22	U	0.24	U	0.27	U	0.23	U	0.24	U	0.22	U	0.21	U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.22	U	0.24	U	0.21	U	0.22	U	0.2	U	0.19	U
Hexachlorobutadiene	87-68-3	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.54	U	0.55	U	0.56	U	0.52	U	0.57	U	0.64	U	0.55	U	0.59	U	0.53	U	0.51	U
Hexachloroethane	67-72-1	mg/kg	0.15	U	0.15	U	0.16	U	0.14	U	0.16	U	0.18	U	0.15	U	0.16	U</				

n-Nitrosodi-n-propylamine	621-64-7	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Butyl benzyl phthalate	85-68-7	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Di-n-butylphthalate	84-74-2	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Di-n-octylphthalate	117-84-0	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Diethyl phthalate	84-66-2	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Dimethyl phthalate	131-11-3	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Benzo(a)anthracene	56-55-3	1 mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.086	J	0.13	U	0.11	U	0.12	U	0.11	U	0.11	U
Benzo(a)pyrene	50-32-8	1 mg/kg	0.15	U	0.15	U	0.16	U	0.14	U	0.082	J	0.18	U	0.15	U	0.16	U	0.15	U	0.14	U
Benzo(b)fluoranthene	205-99-2	1 mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.11	J	0.13	U	0.11	U	0.12	U	0.11	U	0.11	U
Benzo(k)fluoranthene	207-08-9	0.8 mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.046	J	0.13	U	0.11	U	0.12	U	0.11	U	0.11	U
Chrysene	218-01-9	1 mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.095	J	0.13	U	0.11	U	0.12	U	0.11	U	0.11	U
Acenaphthylene	208-96-8	100 mg/kg	0.15	U	0.15	U	0.16	U	0.14	U	0.16	U	0.18	U	0.15	U	0.16	U	0.15	U	0.14	U
Anthracene	120-12-7	100 mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.13	U	0.11	U	0.12	U	0.11	U	0.11	U
Benzo(ghi)perylene	191-24-2	100 mg/kg	0.15	U	0.15	U	0.16	U	0.14	U	0.053	J	0.18	U	0.15	U	0.16	U	0.15	U	0.14	U
Fluorene	86-73-7	30 mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Phenanthrene	85-01-8	100 mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.14	U	0.13	U	0.11	U	0.12	U	0.11	U	0.11	U
Dibenzo(a,h)anthracene	53-70-3	0.33 mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.13	U	0.11	U	0.12	U	0.11	U	0.11	U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.5 mg/kg	0.15	U	0.15	U	0.16	U	0.14	U	0.059	J	0.18	U	0.15	U	0.16	U	0.15	U	0.14	U
Pyrene	129-00-0	100 mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.16	U	0.13	U	0.038	J	0.12	U	0.11	U	0.11	U
Biphenyl	92-52-4	mg/kg	0.43	U	0.44	U	0.44	U	0.42	U	0.46	U	0.51	U	0.44	U	0.47	U	0.42	U	0.41	U
4-Chloroaniline	106-47-8	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
2-Nitroaniline	88-74-4	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
3-Nitroaniline	99-09-2	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
4-Nitroaniline	100-01-6	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Dibenzofuran	132-64-9	7 mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
2-Methylnaphthalene	91-57-6	mg/kg	0.23	U	0.23	U	0.23	U	0.22	U	0.24	U	0.27	U	0.23	U	0.24	U	0.22	U	0.21	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Acetophenone	98-86-2	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.13	U	0.11	U	0.12	U	0.11	U	0.11	U
P-Chloro-M-Cresol	59-50-7	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
2-Chlorophenol	95-57-8	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
2,4-Dichlorophenol	120-83-2	mg/kg	0.17	U	0.17	U	0.18	U	0.16	U	0.18	U	0.2	U	0.17	U	0.18	U	0.17	U	0.16	U
2,4-Dimethylphenol	105-67-9	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	0.41	U	0.41	U	0.42	U	0.39	U	0.43	U	0.48	U	0.41	U	0.44	U	0.4	U	0.38	U
4-Nitrophenol	100-02-7	mg/kg	0.26	U	0.27	U	0.27	U	0.26	U	0.28	U	0.31	U	0.27	U	0.29	U	0.26	U	0.25	U
2,4-Dinitrophenol	51-28-5	mg/kg	0.91	U	0.92	U	0.93	U	0.87	U	0.96	U	1.1	U	0.92	U	0.98	U	0.89	U	0.85	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	0.49	U	0.5	U	0.5	U	0.47	U	0.52	U	0.58	U	0.5	U	0.53	U	0.48	U	0.46	U
Pentachlorophenol	87-86-5	0.8 mg/kg	0.15	U	0.15	U	0.16	U	0.14	U	0.16	U	0.18	U	0.15	U	0.16	U	0.15	U	0.14	U
Phenol	108-95-2	0.33 mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
2-Methylphenol	95-48-7	0.33 mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
3-Methylphenol/4-Methylphenol	108-39-4	0.33 mg/kg	0.27	U	0.27	U	0.28	U	0.26	U	0.29	U	0.32	U	0.28	U	0.3	U	0.27	U	0.26	U
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Benzoic Acid	65-85-0	mg/kg	0.61	U	0.62	U	0.63	U	0.59	U	0.65	U	0.72	U	0.62	U	0.66	U	0.6	U	0.58	U
Benzyl Alcohol	100-51-6	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Carbazole	86-74-8	mg/kg	0.19	U	0.19	U	0.19	U	0.18	U	0.2	U	0.22	U	0.19	U	0.2	U	0.19	U	0.18	U
Total Metals - Westborough Lab																						
Aluminum, Total	7429-90-5	mg/kg	10000		11000		12000		5700		8000		7700		9000		15000		7900		4300	
Antimony, Total	7440-36-0	mg/kg	4.6	U	4.4	U	4.7	U	4.4	U	4.6	U	5.3	U	4.5	U	4.7	U	4.5	U	4.1	U
Arsenic, Total	7440-38-2	13 mg/kg	7.6		6.8		2.8		2.8		2		2.9		2.3		4.3		2.5		1	
Barium, Total	7440-39-3	350 mg/kg	27		19		29		31		31		77		28		26		32		12	
Beryllium, Total	7440-41-7	7.2 mg/kg	0.27	J	0.32	J	0.3	J	0.36	J	0.32	J	0.3	J	0.29	J	0.37	J	0.31	J	0.18	J
Cadmium, Total	7440-43-9	2.5 mg/kg	0.92	U	0.87	U	0.93	U	0.87	U	0.93	U	1.1	U	0.9	U	0.94	U	0.89	U	0.82	U
Calcium, Total	7440-70-2	mg/kg	520		850		370		420		520		25000		2700		1200		7600		3600	
Chromium, Total	7440-47-3	mg/kg	17		17		18		21		13		19		12		20		11		8.7	
Cobalt, Total	7440-48-4	mg/kg	3		5.4		4.8		6.3		4.3		5.2		3.1		7.4		3.7		3	
Copper, Total	7440-50-8	50 mg/kg	8.7		12		10		16		8.4		27		7		12		12		6.6	
Iron, Total	7439-89-6	mg/kg	12000		16000		16000		21000		12000		13000		10000		-		-		-	
Lead, Total	7439-92-1	63 mg/kg	6.7		3	J	20		4.4	U	16		35		13		0.82	J	33		2.8	J
Magnesium, Total	7439-95-4	mg/kg	1300		1800		1300		1300		1100		4400		1200		1800		1300		1100	
Manganese, Total	7439-96-5	1600 mg/kg	91		140		150		540		240		260		170		390		220		200	
Mercury, Total	7439-97-6	0.18 mg/kg	0.04	J	0.03	J	0.11		0.07	U	0.22		0.09	U	0.07	J	0.02	J	0.07		0.07	U
Nickel, Total	7440-02-0	30 mg/kg	7.4		9.4		8.1		11		13		13		6.4		9.1		8		7.8	
Potassium, Total	7440-09-7	mg/kg	960		1100		480		580		460		2000		470		680		510		370	
Selenium, Total	7782-49-2	3.9 mg/kg	1.8	U	0.37	J	0.35	J	1.7	U	1.8	U	2.1	U	1.8	U	1.9	U	1.8	U	1.6	U
Silver, Total	7440-22-4	2 mg/kg	0.92	U	0.87	U	0.93	U	0.87	U	0.93	U	1.1	U	0.9	U	0.94	U	0.89	U	0.82	U
Sodium, Total	7440-23-5	mg/kg	98	J	100	J	67	J	60	J	120	J	340	J	64	J	61	J	77	J	74	J
Thallium, Total	7440-28-0	mg/kg	1.8	U	1.7	U	1.9	U	1.7	U	1.8	U	2.1	U	1.8	U	1.9	U	1.8	U	1.6	U

n-Propylbenzene	103-65-1	3.9 mg/kg	0.001	U	0.0013	U	0.0011	U	0.0011	U	0.0012	U	0.0015	U	0.0014	U	0.0014	U	0.00099	U	0.0012	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	0.0053	U	0.0066	U	0.0055	U	0.0056	U	0.0061	U	0.0076	U	0.0073	U	0.0069	U	0.005	U	0.0061	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.0053	U	0.0066	U	0.0055	U	0.0056	U	0.0061	U	0.0076	U	0.0073	U	0.0069	U	0.005	U	0.0061	U
1,3,5-Trimethylbenzene	108-67-8	8.4 mg/kg	0.0053	U	0.0066	U	0.0055	U	0.0056	U	0.0061	U	0.0076	U	0.0073	U	0.0069	U	0.005	U	0.0061	U
1,2,4-Trimethylbenzene	95-63-6	3.6 mg/kg	0.0053	U	0.0066	U	0.0055	U	0.0056	U	0.0061	U	0.0076	U	0.0073	U	0.0069	U	0.005	U	0.0061	U
1,4-Dioxane	123-91-1	0.1 mg/kg	0.1	U	0.13	U	0.11	U	0.11	U	0.12	U	0.15	U	0.14	U	0.14	U	0.099	U	0.12	U
p-Diethylbenzene	105-05-5	mg/kg	0.0042	U	0.0053	U	0.0044	U	0.0044	U	0.0048	U	0.0061	U	0.0058	U	0.0056	U	0.004	U	0.0049	U
p-Ethyltoluene	622-96-8	mg/kg	0.0042	U	0.0053	U	0.0044	U	0.0044	U	0.0048	U	0.0061	U	0.0058	U	0.0056	U	0.004	U	0.0049	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	0.0042	U	0.0053	U	0.0044	U	0.0044	U	0.0048	U	0.0061	U	0.0058	U	0.0056	U	0.004	U	0.0049	U
Ethyl ether	60-29-7	mg/kg	0.0053	U	0.0066	U	0.0055	U	0.0056	U	0.0061	U	0.0076	U	0.0073	U	0.0069	U	0.005	U	0.0061	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	0.0053	U	0.0066	U	0.0055	U	0.0056	U	0.0061	U	0.0076	U	0.0073	U	0.0069	U	0.005	U	0.0061	U

Results Compared to

NYSDEC Part 375-6.8(a)
Unrestricted Use Soil Cleanup Objectives,

LOCATION			S1A	S2A	S3A	S4A	S5A
SAMPLING DATE			7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015
LAB SAMPLE ID			L1516304-01	L1516304-02	L1516304-03	L1516304-04	L1516304-05
SAMPLE TYPE							
SAMPLE DEPTH (ft.)							
	CasNum	NY-UNRE Units	Qual	Qual	Qual	Qual	Qual
General Chemistry - Westborough Lab							
Solids, Total	NONE	%	93.6	90.4	92.1	93.2	90.2
Total Metals - Westborough Lab							
Copper, Total	7440-50-8	50 mg/kg	8.3	11	7.5	8.2	8.3

LOCATION
 SAMPLING DATE
 LAB SAMPLE ID
 SAMPLE TYPE
 SAMPLE DEPTH (ft.)

SA
 5/29/2015
 L1511911-01

	CasNum	NY-UNRE Units		Qual
General Chemistry - Westborough Lab				
Solids, Total	NONE	%	80.7	
Volatile Organics by 8260/5035 - Westborough Lab				
Methylene chloride	75-09-2	0.05 mg/kg	0.012	U
1,1-Dichloroethane	75-34-3	0.27 mg/kg	0.0018	U
Chloroform	67-66-3	0.37 mg/kg	0.0018	U
Carbon tetrachloride	56-23-5	0.76 mg/kg	0.0012	U
1,2-Dichloropropane	78-87-5	mg/kg	0.0043	U
Dibromochloromethane	124-48-1	mg/kg	0.0012	U
1,1,2-Trichloroethane	79-00-5	mg/kg	0.0018	U
Tetrachloroethene	127-18-4	1.3 mg/kg	0.0055	
Chlorobenzene	108-90-7	1.1 mg/kg	0.0012	U
Trichlorofluoromethane	75-69-4	mg/kg	0.0062	U
1,2-Dichloroethane	107-06-2	0.02 mg/kg	0.0012	U
1,1,1-Trichloroethane	71-55-6	0.68 mg/kg	0.0012	U
Bromodichloromethane	75-27-4	mg/kg	0.0012	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.0012	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.0012	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	0.0012	U
1,1-Dichloropropene	563-58-6	mg/kg	0.0062	U
Bromoform	75-25-2	mg/kg	0.005	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.0012	U
Benzene	71-43-2	0.06 mg/kg	0.0012	U
Toluene	108-88-3	0.7 mg/kg	0.0018	U
Ethylbenzene	100-41-4	1 mg/kg	0.0012	U
Chloromethane	74-87-3	mg/kg	0.0062	U
Bromomethane	74-83-9	mg/kg	0.0025	U
Vinyl chloride	75-01-4	0.02 mg/kg	0.0025	U
Chloroethane	75-00-3	mg/kg	0.0025	U
1,1-Dichloroethene	75-35-4	0.33 mg/kg	0.0012	U
trans-1,2-Dichloroethene	156-60-5	0.19 mg/kg	0.0018	U
Trichloroethene	79-01-6	0.47 mg/kg	0.0091	
1,2-Dichlorobenzene	95-50-1	1.1 mg/kg	0.0062	U
1,3-Dichlorobenzene	541-73-1	2.4 mg/kg	0.0062	U
1,4-Dichlorobenzene	106-46-7	1.8 mg/kg	0.0062	U
Methyl tert butyl ether	1634-04-4	0.93 mg/kg	0.0025	U
p/m-Xylene	179601-23-1	mg/kg	0.0025	U
o-Xylene	95-47-6	mg/kg	0.0025	U
Xylenes, Total	1330-20-7	0.26 mg/kg	0.0025	U
cis-1,2-Dichloroethene	156-59-2	0.25 mg/kg	0.0012	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	0.0012	U
Dibromomethane	74-95-3	mg/kg	0.012	U
Styrene	100-42-5	mg/kg	0.0025	U
Dichlorodifluoromethane	75-71-8	mg/kg	0.012	U
Acetone	67-64-1	0.05 mg/kg	0.012	U
Carbon disulfide	75-15-0	mg/kg	0.012	U
2-Butanone	78-93-3	0.12 mg/kg	0.012	U
Vinyl acetate	108-05-4	mg/kg	0.012	U
4-Methyl-2-pentanone	108-10-1	mg/kg	0.012	U
1,2,3-Trichloropropane	96-18-4	mg/kg	0.012	U
2-Hexanone	591-78-6	mg/kg	0.012	U
Bromochloromethane	74-97-5	mg/kg	0.0062	U
2,2-Dichloropropane	594-20-7	mg/kg	0.0062	U
1,2-Dibromoethane	106-93-4	mg/kg	0.005	U
1,3-Dichloropropane	142-28-9	mg/kg	0.0062	U
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.0012	U
Bromobenzene	108-86-1	mg/kg	0.0062	U
n-Butylbenzene	104-51-8	12 mg/kg	0.0012	U
sec-Butylbenzene	135-98-8	11 mg/kg	0.0012	U
tert-Butylbenzene	98-06-6	5.9 mg/kg	0.0062	U
o-Chlorotoluene	95-49-8	mg/kg	0.0062	U
p-Chlorotoluene	106-43-4	mg/kg	0.0062	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.0062	U
Hexachlorobutadiene	87-68-3	mg/kg	0.0062	U
Isopropylbenzene	98-82-8	mg/kg	0.0012	U
p-Isopropyltoluene	99-87-6	mg/kg	0.0012	U
Naphthalene	91-20-3	12 mg/kg	0.0062	U
Acrylonitrile	107-13-1	mg/kg	0.012	U
n-Propylbenzene	103-65-1	3.9 mg/kg	0.0012	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	0.0062	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.0062	U
1,3,5-Trimethylbenzene	108-67-8	8.4 mg/kg	0.0062	U
1,2,4-Trimethylbenzene	95-63-6	3.6 mg/kg	0.0062	U
1,4-Dioxane	123-91-1	0.1 mg/kg	0.12	U
p-Diethylbenzene	105-05-5	mg/kg	0.005	U
p-Ethyltoluene	622-96-8	mg/kg	0.005	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	0.005	U
Ethyl ether	60-29-7	mg/kg	0.0062	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	0.0062	U

Table 3. Groundwater Analytical Results

LOCATION			MW-1	MW-2	MW-3	
SAMPLING DATE			4/8/2015	4/8/2015	4/8/2015	
LAB SAMPLE ID			L1507070-01	L1507070-02	L1507070-03	L1507070-04
	CasNum	NY-AWQS Units		Qual	Qual	Qual
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	319-86-8	0.04 ug/l	0.02	U	-	-
Lindane	58-89-9	0.05 ug/l	0.02	U	-	-
Alpha-BHC	319-84-6	0.01 ug/l	0.02	U	-	-
Beta-BHC	319-85-7	0.04 ug/l	0.02	U	-	-
Heptachlor	76-44-8	0.04 ug/l	0.02	U	-	-
Aldrin	309-00-2	0 ug/l	0.02	U	-	-
Heptachlor epoxide	1024-57-3	0.03 ug/l	0.02	U	-	-
Endrin	72-20-8	0 ug/l	0.04	U	-	-
Endrin ketone	53494-70-5	5 ug/l	0.04	U	-	-
Dieldrin	60-57-1	0.004 ug/l	0.04	U	-	-
4,4'-DDE	72-55-9	0.2 ug/l	0.04	U	-	-
4,4'-DDD	72-54-8	0.3 ug/l	0.04	U	-	-
4,4'-DDT	50-29-3	0.2 ug/l	0.04	U	-	-
Endosulfan I	959-98-8	ug/l	0.02	U	-	-
Endosulfan II	33213-65-9	ug/l	0.04	U	-	-
Endosulfan sulfate	1031-07-8	ug/l	0.04	U	-	-
Methoxychlor	72-43-5	35 ug/l	0.2	U	-	-
Toxaphene	8001-35-2	0.06 ug/l	0.2	U	-	-
cis-Chlordane	5103-71-9	ug/l	0.02	U	-	-
trans-Chlordane	5103-74-2	ug/l	0.02	U	-	-
Chlordane	57-74-9	0.05 ug/l	0.2	U	-	-
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	12674-11-2	0.09 ug/l	0.083	U	-	-
Aroclor 1221	11104-28-2	0.09 ug/l	0.083	U	-	-
Aroclor 1232	11141-16-5	0.09 ug/l	0.083	U	-	-
Aroclor 1242	53469-21-9	0.09 ug/l	0.083	U	-	-
Aroclor 1248	12672-29-6	0.09 ug/l	0.083	U	-	-
Aroclor 1254	11097-69-1	0.09 ug/l	0.083	U	-	-
Aroclor 1260	11096-82-5	0.09 ug/l	0.083	U	-	-
Aroclor 1262	37324-23-5	0.09 ug/l	0.083	U	-	-
Aroclor 1268	11100-14-4	0.09 ug/l	0.083	U	-	-
PCBs, Total	1336-36-3	ug/l	0.083	U	-	-
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	120-82-1	5 ug/l	5	U	-	-
Bis(2-chloroethyl)ether	111-44-4	1 ug/l	2	U	-	-
1,2-Dichlorobenzene	95-50-1	3 ug/l	2	U	-	-
1,3-Dichlorobenzene	541-73-1	3 ug/l	2	U	-	-
1,4-Dichlorobenzene	106-46-7	3 ug/l	2	U	-	-
3,3'-Dichlorobenzidine	91-94-1	5 ug/l	5	U	-	-
2,4-Dinitrotoluene	121-14-2	5 ug/l	5	U	-	-
2,6-Dinitrotoluene	606-20-2	5 ug/l	5	U	-	-
4-Chlorophenyl phenyl ether	7005-72-3	ug/l	2	U	-	-
4-Bromophenyl phenyl ether	101-55-3	ug/l	2	U	-	-
Bis(2-chloroisopropyl)ether	39638-32-9	5 ug/l	2	U	-	-
Bis(2-chloroethoxy)methane	111-91-1	5 ug/l	5	U	-	-
Hexachlorocyclopentadiene	77-47-4	5 ug/l	20	U	-	-
Isophorone	78-59-1	50 ug/l	5	U	-	-
Nitrobenzene	98-95-3	0.4 ug/l	2	U	-	-
NitrosoDiPhenylAmine(NDPA)/DF	86-30-6	50 ug/l	2	U	-	-
n-Nitrosodi-n-propylamine	621-64-7	ug/l	5	U	-	-
Bis(2-Ethylhexyl)phthalate	117-81-7	5 ug/l	3	U	-	-
Butyl benzyl phthalate	85-68-7	50 ug/l	5	U	-	-
Di-n-butylphthalate	84-74-2	50 ug/l	5	U	-	-
Di-n-octylphthalate	117-84-0	50 ug/l	5	U	-	-
Diethyl phthalate	84-66-2	50 ug/l	5	U	-	-
Dimethyl phthalate	131-11-3	50 ug/l	5	U	-	-
Biphenyl	92-52-4	5 ug/l	2	U	-	-
4-Chloroaniline	106-47-8	5 ug/l	5	U	-	-

2-Nitroaniline	88-74-4	5 ug/l	5	U	-	-	-	-
3-Nitroaniline	99-09-2	5 ug/l	5	U	-	-	-	-
4-Nitroaniline	100-01-6	5 ug/l	5	U	-	-	-	-
Dibenzofuran	132-64-9	ug/l	2	U	-	-	-	-
1,2,4,5-Tetrachlorobenzene	95-94-3	5 ug/l	10	U	-	-	-	-
Acetophenone	98-86-2	ug/l	5	U	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	ug/l	5	U	-	-	-	-
P-Chloro-M-Cresol	59-50-7	ug/l	2	U	-	-	-	-
2-Chlorophenol	95-57-8	ug/l	2	U	-	-	-	-
2,4-Dichlorophenol	120-83-2	1 ug/l	5	U	-	-	-	-
2,4-Dimethylphenol	105-67-9	50 ug/l	5	U	-	-	-	-
2-Nitrophenol	88-75-5	ug/l	10	U	-	-	-	-
4-Nitrophenol	100-02-7	ug/l	10	U	-	-	-	-
2,4-Dinitrophenol	51-28-5	10 ug/l	20	U	-	-	-	-
4,6-Dinitro-o-cresol	534-52-1	ug/l	10	U	-	-	-	-
Phenol	108-95-2	1 ug/l	5	U	-	-	-	-
2-Methylphenol	95-48-7	ug/l	5	U	-	-	-	-
3-Methylphenol/4-Methylphenol	108-39-4	ug/l	5	U	-	-	-	-
2,4,5-Trichlorophenol	95-95-4	ug/l	5	U	-	-	-	-
Benzoic Acid	65-85-0	ug/l	50	U	-	-	-	-
Benzyl Alcohol	100-51-6	ug/l	2	U	-	-	-	-
Carbazole	86-74-8	ug/l	2	U	-	-	-	-
Semivolatile Organics by GC/MS-SIM - Westborough Lab								
Acenaphthene	83-32-9	20 ug/l	0.2	U	-	-	-	-
2-Chloronaphthalene	91-58-7	10 ug/l	0.2	U	-	-	-	-
Fluoranthene	206-44-0	50 ug/l	0.2	U	-	-	-	-
Hexachlorobutadiene	87-68-3	0.5 ug/l	0.5	U	-	-	-	-
Naphthalene	91-20-3	10 ug/l	0.2	U	-	-	-	-
Benzo(a)anthracene	56-55-3	0.002 ug/l	0.2	U	-	-	-	-
Benzo(a)pyrene	50-32-8	0 ug/l	0.2	U	-	-	-	-
Benzo(b)fluoranthene	205-99-2	0.002 ug/l	0.2	U	-	-	-	-
Benzo(k)fluoranthene	207-08-9	0.002 ug/l	0.2	U	-	-	-	-
Chrysene	218-01-9	0.002 ug/l	0.2	U	-	-	-	-
Acenaphthylene	208-96-8	ug/l	0.2	U	-	-	-	-
Anthracene	120-12-7	50 ug/l	0.2	U	-	-	-	-
Benzo(ghi)perylene	191-24-2	ug/l	0.2	U	-	-	-	-
Fluorene	86-73-7	50 ug/l	0.2	U	-	-	-	-
Phenanthrene	85-01-8	50 ug/l	0.2	U	-	-	-	-
Dibenzo(a,h)anthracene	53-70-3	ug/l	0.2	U	-	-	-	-
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002 ug/l	0.2	U	-	-	-	-
Pyrene	129-00-0	50 ug/l	0.2	U	-	-	-	-
2-Methylnaphthalene	91-57-6	ug/l	0.2	U	-	-	-	-
Pentachlorophenol	87-86-5	1 ug/l	0.8	U	-	-	-	-
Hexachlorobenzene	118-74-1	0.04 ug/l	0.8	U	-	-	-	-
Hexachloroethane	67-72-1	5 ug/l	0.8	U	-	-	-	-
Total Metals - Westborough Lab								
Aluminum, Total	7429-90-5	ug/l	-	-	-	-	-	-
Antimony, Total	7440-36-0	3 ug/l	0.4	J	0.4	J	0.8	J
Arsenic, Total	7440-38-2	25 ug/l	1.9	-	3.7	-	7	-
Barium, Total	7440-39-3	1000 ug/l	152	-	173.7	-	-	-
Beryllium, Total	7440-41-7	3 ug/l	0.3	J	0.9	-	2	-
Cadmium, Total	7440-43-9	5 ug/l	0.1	J	0.3	-	0.8	-
Calcium, Total	7440-70-2	ug/l	-	-	45700	-	-	-
Chromium, Total	7440-47-3	50 ug/l	19.7	-	54.6	-	106.6	-
Cobalt, Total	7440-48-4	ug/l	14	-	28.7	-	102.2	-
Copper, Total	7440-50-8	200 ug/l	22.1	-	54.4	-	134.3	-
Iron, Total	7439-89-6	300 ug/l	15800	-	39500	-	-	-
Lead, Total	7439-92-1	25 ug/l	7.6	-	17.5	-	73.3	-
Magnesium, Total	7439-95-4	35000 ug/l	33200	-	30600	-	42500	-
Manganese, Total	7439-96-5	300 ug/l	-	-	-	-	-	-
Mercury, Total	7439-97-6	0.7 ug/l	0.2	U	0.2	U	0.08	J
Nickel, Total	7440-02-0	100 ug/l	25.7	-	107.8	-	213.7	-
Potassium, Total	7440-09-7	ug/l	5260	-	8590	-	10600	-
Selenium, Total	7782-49-2	10 ug/l	2	J	6	-	8	-
Silver, Total	7440-22-4	50 ug/l	-	-	-	-	-	-

Sodium, Total	7440-23-5	20000 ug/l	45400		39400		33800	
Thallium, Total	7440-28-0	0.5 ug/l	0.2	J	0.2		0.7	
Vanadium, Total	7440-62-2	ug/l	18.6		36.1		91.2	
Zinc, Total	7440-66-6	2000 ug/l	53.1		95.9		237.7	
Volatile Organics by GC/MS - Westborough Lab								
Methylene chloride	75-09-2	5 ug/l	2.5	U	5	U	5	U
1,1-Dichloroethane	75-34-3	5 ug/l	2.5	U	5	U	5	U
Chloroform	67-66-3	7 ug/l	2.5	U	5	U	5	U
Carbon tetrachloride	56-23-5	5 ug/l	0.5	U	1	U	1	U
1,2-Dichloropropane	78-87-5	1 ug/l	1	U	2	U	2	U
Dibromochloromethane	124-48-1	50 ug/l	0.5	U	1	U	1	U
1,1,2-Trichloroethane	79-00-5	1 ug/l	1.5	U	3	U	3	U
Tetrachloroethene	127-18-4	5 ug/l	6.8		150		210	
Chlorobenzene	108-90-7	5 ug/l	2.5	U	5	U	5	U
Trichlorofluoromethane	75-69-4	5 ug/l	2.5	U	5	U	5	U
1,2-Dichloroethane	107-06-2	0.6 ug/l	0.5	U	1	U	1	U
1,1,1-Trichloroethane	71-55-6	5 ug/l	2.5	U	5	U	5	U
Bromodichloromethane	75-27-4	50 ug/l	0.5	U	1	U	1	U
trans-1,3-Dichloropropene	10061-02-6	0.4 ug/l	0.5	U	1	U	1	U
cis-1,3-Dichloropropene	10061-01-5	0.4 ug/l	0.5	U	1	U	1	U
1,3-Dichloropropene, Total	542-75-6	ug/l	0.5	U	1	U	1	U
1,1-Dichloropropene	563-58-6	5 ug/l	2.5	U	5	U	5	U
Bromoform	75-25-2	50 ug/l	2	U	4	U	4	U
1,1,2,2-Tetrachloroethane	79-34-5	5 ug/l	0.5	U	1	U	1	U
Benzene	71-43-2	1 ug/l	0.5	U	1	U	1	U
Toluene	108-88-3	5 ug/l	2.5	U	5	U	5	U
Ethylbenzene	100-41-4	5 ug/l	2.5	U	5	U	5	U
Chloromethane	74-87-3	ug/l	2.5	U	5	U	5	U
Bromomethane	74-83-9	5 ug/l	2.5	U	5	U	5	U
Vinyl chloride	75-01-4	2 ug/l	1	U	2	U	2	U
Chloroethane	75-00-3	5 ug/l	2.5	U	5	U	5	U
1,1-Dichloroethene	75-35-4	5 ug/l	0.5	U	1	U	1	U
trans-1,2-Dichloroethene	156-60-5	5 ug/l	2.5	U	5	U	5	U
Trichloroethene	79-01-6	5 ug/l	7.3		80		120	
1,2-Dichlorobenzene	95-50-1	3 ug/l	2.5	U	5	U	5	U
1,3-Dichlorobenzene	541-73-1	3 ug/l	2.5	U	5	U	5	U
1,4-Dichlorobenzene	106-46-7	3 ug/l	2.5	U	5	U	5	U
Methyl tert butyl ether	1634-04-4	10 ug/l	2.5	U	5	U	5	U
p/m-Xylene	179601-23-1	5 ug/l	2.5	U	5	U	5	U
o-Xylene	95-47-6	5 ug/l	2.5	U	5	U	5	U
Xylenes, Total	1330-20-7	ug/l	2.5	U	5	U	5	U
cis-1,2-Dichloroethene	156-59-2	5 ug/l	2.5	U	3.4	J	6	
1,2-Dichloroethene, Total	540-59-0	ug/l	2.5	U	3.4	J	6	
Dibromomethane	74-95-3	5 ug/l	5	U	10	U	10	U
1,2,3-Trichloropropane	96-18-4	0.04 ug/l	2.5	U	5	U	5	U
Acrylonitrile	107-13-1	5 ug/l	5	U	10	U	10	U
Styrene	100-42-5	5 ug/l	2.5	U	5	U	5	U
Dichlorodifluoromethane	75-71-8	5 ug/l	5	U	10	U	10	U
Acetone	67-64-1	50 ug/l	5	U	3.8	J	3	J
Carbon disulfide	75-15-0	60 ug/l	5	U	10	U	10	U
2-Butanone	78-93-3	50 ug/l	5	U	10	U	10	U
Vinyl acetate	108-05-4	ug/l	5	U	10	U	10	U
4-Methyl-2-pentanone	108-10-1	ug/l	5	U	10	U	10	U
2-Hexanone	591-78-6	50 ug/l	5	U	10	U	10	U
Bromochloromethane	74-97-5	5 ug/l	2.5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5 ug/l	2.5	U	5	U	5	U
1,2-Dibromoethane	106-93-4	0.0006 ug/l	2	U	4	U	4	U
1,3-Dichloropropane	142-28-9	5 ug/l	2.5	U	5	U	5	U
1,1,1,2-Tetrachloroethane	630-20-6	5 ug/l	2.5	U	5	U	5	U
Bromobenzene	108-86-1	5 ug/l	2.5	U	5	U	5	U
n-Butylbenzene	104-51-8	5 ug/l	2.5	U	5	U	5	U
sec-Butylbenzene	135-98-8	5 ug/l	2.5	U	5	U	5	U
tert-Butylbenzene	98-06-6	5 ug/l	2.5	U	5	U	5	U
o-Chlorotoluene	95-49-8	5 ug/l	2.5	U	5	U	5	U
p-Chlorotoluene	106-43-4	5 ug/l	2.5	U	5	U	5	U

1,2-Dibromo-3-chloropropane	96-12-8	0.04 ug/l	2.5	U	5	U	5	U
Hexachlorobutadiene	87-68-3	0.5 ug/l	2.5	U	5	U	5	U
Isopropylbenzene	98-82-8	5 ug/l	2.5	U	5	U	5	U
p-Isopropyltoluene	99-87-6	5 ug/l	2.5	U	5	U	5	U
Naphthalene	91-20-3	10 ug/l	2.5	U	5	U	4.4	J
n-Propylbenzene	103-65-1	5 ug/l	2.5	U	5	U	5	U
1,2,3-Trichlorobenzene	87-61-6	5 ug/l	2.5	U	5	U	5	U
1,2,4-Trichlorobenzene	120-82-1	5 ug/l	2.5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5 ug/l	2.5	U	5	U	5	U
1,2,4-Trimethylbenzene	95-63-6	5 ug/l	2.5	U	5	U	5	U
1,4-Dioxane	123-91-1	ug/l	250	U	500	U	500	U
p-Diethylbenzene	105-05-5	ug/l	2	U	4	U	4	U
p-Ethyltoluene	622-96-8	ug/l	2	U	4	U	4	U
1,2,4,5-Tetramethylbenzene	95-93-2	5 ug/l	2	U	4	U	4	U
Ethyl ether	60-29-7	ug/l	2.5	U	5	U	5	U
trans-1,4-Dichloro-2-butene	110-57-6	5 ug/l	2.5	U	5	U	5	U

Results Compared to
Division of Water Technical and
Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS),

LOCATION			MW-4	MW-2	MW-3	MW-1	
SAMPLING DATE			7/15/2015	7/15/2015	7/15/2015	7/15/2015	
LAB SAMPLE ID			L1516379-01	L1516379-02	L1516379-03	L1516379-04	L1516379-05
	CasNum	NY-AWQ# Units		Qual	Qual	Qual	Qual
Dissolved Metals - Westborough Lab							
Aluminum, Dissolved	7429-90-5	ug/l	49	-	-	-	-
Antimony, Dissolved	7440-36-0	3 ug/l	1.3	J	-	-	-
Arsenic, Dissolved	7440-38-2	25 ug/l	0.2	J	-	-	-
Barium, Dissolved	7440-39-3	1000 ug/l	60.6	-	-	-	-
Beryllium, Dissolved	7440-41-7	3 ug/l	0.5	U	-	-	-
Cadmium, Dissolved	7440-43-9	5 ug/l	0.1	J	-	-	-
Calcium, Dissolved	7440-70-2	ug/l	47600	-	-	-	-
Chromium, Dissolved	7440-47-3	50 ug/l	4	-	-	-	-
Cobalt, Dissolved	7440-48-4	ug/l	0.9	-	-	-	-
Copper, Dissolved	7440-50-8	200 ug/l	0.7	J	-	-	-
Iron, Dissolved	7439-89-6	300 ug/l	140	-	-	-	-
Lead, Dissolved	7439-92-1	25 ug/l	1	U	-	-	-
Magnesium, Dissolved	7439-95-4	35000 ug/l	23800	-	-	-	-
Manganese, Dissolved	7439-96-5	300 ug/l	-	-	-	-	-
Mercury, Dissolved	7439-97-6	0.7 ug/l	0.2	U	-	-	-
Nickel, Dissolved	7440-02-0	100 ug/l	12.4	-	-	-	-
Potassium, Dissolved	7440-09-7	ug/l	3790	-	-	-	-
Selenium, Dissolved	7782-49-2	10 ug/l	4	J	-	-	-
Silver, Dissolved	7440-22-4	50 ug/l	0.2	J	-	-	-
Sodium, Dissolved	7440-23-5	20000 ug/l	22800	-	-	-	-
Thallium, Dissolved	7440-28-0	0.5 ug/l	0.5	U	-	-	-
Vanadium, Dissolved	7440-62-2	ug/l	5	U	-	-	-
Zinc, Dissolved	7440-66-6	2000 ug/l	5	J	-	-	-
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	319-86-8	0.04 ug/l	0.02	U	-	-	-
Lindane	58-89-9	0.05 ug/l	0.02	U	-	-	-
Alpha-BHC	319-84-6	0.01 ug/l	0.02	U	-	-	-
Beta-BHC	319-85-7	0.04 ug/l	0.02	U	-	-	-
Heptachlor	76-44-8	0.04 ug/l	0.02	U	-	-	-
Aldrin	309-00-2	0 ug/l	0.02	U	-	-	-
Heptachlor epoxide	1024-57-3	0.03 ug/l	0.02	U	-	-	-
Endrin	72-20-8	0 ug/l	0.04	U	-	-	-
Endrin ketone	53494-70-5	5 ug/l	0.04	U	-	-	-
Dieldrin	60-57-1	0.004 ug/l	0.04	U	-	-	-
4,4'-DDE	72-55-9	0.2 ug/l	0.04	U	-	-	-
4,4'-DDD	72-54-8	0.3 ug/l	0.04	U	-	-	-
4,4'-DDT	50-29-3	0.2 ug/l	0.04	U	-	-	-
Endosulfan I	959-98-8	ug/l	0.02	U	-	-	-
Endosulfan II	33213-65-9	ug/l	0.04	U	-	-	-
Endosulfan sulfate	1031-07-8	ug/l	0.04	U	-	-	-
Methoxychlor	72-43-5	35 ug/l	0.2	U	-	-	-
Toxaphene	8001-35-2	0.06 ug/l	0.2	U	-	-	-
cis-Chlordane	5103-71-9	ug/l	0.02	U	-	-	-
trans-Chlordane	5103-74-2	ug/l	0.02	U	-	-	-
Chlordane	57-74-9	0.05 ug/l	0.2	U	-	-	-
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	12674-11-2	0.09 ug/l	0.083	U	-	-	-
Aroclor 1221	11104-28-2	0.09 ug/l	0.083	U	-	-	-
Aroclor 1232	11141-16-5	0.09 ug/l	0.083	U	-	-	-
Aroclor 1242	53469-21-9	0.09 ug/l	0.083	U	-	-	-
Aroclor 1248	12672-29-6	0.09 ug/l	0.083	U	-	-	-
Aroclor 1254	11097-69-1	0.09 ug/l	0.083	U	-	-	-
Aroclor 1260	11096-82-5	0.09 ug/l	0.083	U	-	-	-
Aroclor 1262	37324-23-5	0.09 ug/l	0.083	U	-	-	-
Aroclor 1268	11100-14-4	0.09 ug/l	0.083	U	-	-	-
PCBs, Total	1336-36-3	ug/l	0.083	U	-	-	-
Semivolatile Organics by GC/MS - Westborough Lab							
1,2,4-Trichlorobenzene	120-82-1	5 ug/l	5	U	-	-	-
Bis(2-chloroethyl)ether	111-44-4	1 ug/l	2	U	-	-	-
1,2-Dichlorobenzene	95-50-1	3 ug/l	2	U	-	-	-
1,3-Dichlorobenzene	541-73-1	3 ug/l	2	U	-	-	-
1,4-Dichlorobenzene	106-46-7	3 ug/l	2	U	-	-	-
3,3'-Dichlorobenzidine	91-94-1	5 ug/l	5	U	-	-	-
2,4-Dinitrotoluene	121-14-2	5 ug/l	5	U	-	-	-
2,6-Dinitrotoluene	606-20-2	5 ug/l	5	U	-	-	-
4-Chlorophenyl phenyl ether	7005-72-3	ug/l	2	U	-	-	-
4-Bromophenyl phenyl ether	101-55-3	ug/l	2	U	-	-	-

Bis(2-chloroisopropyl)ether	108-60-1	5 ug/l	2	U	-	-	-	-	-	-
Bis(2-chloroethoxy)methane	111-91-1	5 ug/l	5	U	-	-	-	-	-	-
Hexachlorocyclopentadiene	77-47-4	5 ug/l	20	U	-	-	-	-	-	-
Isophorone	78-59-1	50 ug/l	5	U	-	-	-	-	-	-
Nitrobenzene	98-95-3	0.4 ug/l	2	U	-	-	-	-	-	-
NitrosoDiPhenylAmine(NDPA)/DP	86-30-6	50 ug/l	2	U	-	-	-	-	-	-
n-Nitrosodi-n-propylamine	621-64-7	ug/l	5	U	-	-	-	-	-	-
Bis(2-Ethylhexyl)phthalate	117-81-7	5 ug/l	3	U	-	-	-	-	-	-
Butyl benzyl phthalate	85-68-7	50 ug/l	5	U	-	-	-	-	-	-
Di-n-butylphthalate	84-74-2	50 ug/l	5	U	-	-	-	-	-	-
Di-n-octylphthalate	117-84-0	50 ug/l	5	U	-	-	-	-	-	-
Diethyl phthalate	84-66-2	50 ug/l	5	U	-	-	-	-	-	-
Dimethyl phthalate	131-11-3	50 ug/l	5	U	-	-	-	-	-	-
Biphenyl	92-52-4	5 ug/l	2	U	-	-	-	-	-	-
4-Chloroaniline	106-47-8	5 ug/l	5	U	-	-	-	-	-	-
2-Nitroaniline	88-74-4	5 ug/l	5	U	-	-	-	-	-	-
3-Nitroaniline	99-09-2	5 ug/l	5	U	-	-	-	-	-	-
4-Nitroaniline	100-01-6	5 ug/l	5	U	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/l	2	U	-	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	95-94-3	5 ug/l	10	U	-	-	-	-	-	-
Acetophenone	98-86-2	ug/l	5	U	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	ug/l	5	U	-	-	-	-	-	-
P-Chloro-M-Cresol	59-50-7	ug/l	2	U	-	-	-	-	-	-
2-Chlorophenol	95-57-8	ug/l	2	U	-	-	-	-	-	-
2,4-Dichlorophenol	120-83-2	1 ug/l	5	U	-	-	-	-	-	-
2,4-Dimethylphenol	105-67-9	50 ug/l	5	U	-	-	-	-	-	-
2-Nitrophenol	88-75-5	ug/l	10	U	-	-	-	-	-	-
4-Nitrophenol	100-02-7	ug/l	10	U	-	-	-	-	-	-
2,4-Dinitrophenol	51-28-5	10 ug/l	20	U	-	-	-	-	-	-
4,6-Dinitro-o-cresol	534-52-1	ug/l	10	U	-	-	-	-	-	-
Phenol	108-95-2	1 ug/l	5	U	-	-	-	-	-	-
2-Methylphenol	95-48-7	ug/l	5	U	-	-	-	-	-	-
3-Methylphenol/4-Methylphenol	108-39-4	ug/l	5	U	-	-	-	-	-	-
2,4,5-Trichlorophenol	95-95-4	ug/l	5	U	-	-	-	-	-	-
Benzoic Acid	65-85-0	ug/l	50	U	-	-	-	-	-	-
Benzyl Alcohol	100-51-6	ug/l	2	U	-	-	-	-	-	-
Carbazole	86-74-8	ug/l	2	U	-	-	-	-	-	-
Semivolatile Organics by GC/MS-SIM - Westborough Lab										
Acenaphthene	83-32-9	20 ug/l	0.2	U	-	-	-	-	-	-
2-Chloronaphthalene	91-58-7	10 ug/l	0.2	U	-	-	-	-	-	-
Fluoranthene	206-44-0	50 ug/l	0.2	U	-	-	-	-	-	-
Hexachlorobutadiene	87-68-3	0.5 ug/l	0.5	U	-	-	-	-	-	-
Naphthalene	91-20-3	10 ug/l	0.2	U	-	-	-	-	-	-
Benzo(a)anthracene	56-55-3	0.002 ug/l	0.2	U	-	-	-	-	-	-
Benzo(a)pyrene	50-32-8	0 ug/l	0.2	U	-	-	-	-	-	-
Benzo(b)fluoranthene	205-99-2	0.002 ug/l	0.2	U	-	-	-	-	-	-
Benzo(k)fluoranthene	207-08-9	0.002 ug/l	0.2	U	-	-	-	-	-	-
Chrysene	218-01-9	0.002 ug/l	0.2	U	-	-	-	-	-	-
Acenaphthylene	208-96-8	ug/l	0.2	U	-	-	-	-	-	-
Anthracene	120-12-7	50 ug/l	0.2	U	-	-	-	-	-	-
Benzo(ghi)perylene	191-24-2	ug/l	0.2	U	-	-	-	-	-	-
Fluorene	86-73-7	50 ug/l	0.2	U	-	-	-	-	-	-
Phenanthrene	85-01-8	50 ug/l	0.2	U	-	-	-	-	-	-
Dibenzo(a,h)anthracene	53-70-3	ug/l	0.2	U	-	-	-	-	-	-
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002 ug/l	0.2	U	-	-	-	-	-	-
Pyrene	129-00-0	50 ug/l	0.2	U	-	-	-	-	-	-
2-Methylnaphthalene	91-57-6	ug/l	0.2	U	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1 ug/l	0.8	U	-	-	-	-	-	-
Hexachlorobenzene	118-74-1	0.04 ug/l	0.8	U	-	-	-	-	-	-
Hexachloroethane	67-72-1	5 ug/l	0.8	U	-	-	-	-	-	-
Total Metals - Westborough Lab										
Aluminum, Total	7429-90-5	ug/l	-	-	-	-	-	-	-	-
Antimony, Total	7440-36-0	3 ug/l	0.3	J	0.3	J	0.3	J	0.1	J
Arsenic, Total	7440-38-2	25 ug/l	5.1	-	7.6	-	1.3	-	4	-
Barium, Total	7440-39-3	1000 ug/l	-	-	-	-	104.4	-	416.2	-
Beryllium, Total	7440-41-7	3 ug/l	1.6	-	3.3	-	0.3	J	1.5	-
Cadmium, Total	7440-43-9	5 ug/l	1.1	-	0.8	-	0.18	J	0.2	-
Calcium, Total	7440-70-2	ug/l	-	-	-	-	-	-	-	-
Chromium, Total	7440-47-3	50 ug/l	96.3	-	328.1	-	25.4	-	91.4	-
Cobalt, Total	7440-48-4	ug/l	80.6	-	120	-	12.1	-	63.1	-
Copper, Total	7440-50-8	200 ug/l	130.8	-	366.6	-	98.4	-	316.1	-
Iron, Total	7439-89-6	300 ug/l	-	-	-	-	12000	-	-	-
Lead, Total	7439-92-1	25 ug/l	54.9	-	101.6	-	7.4	-	35.1	-
Magnesium, Total	7439-95-4	35000 ug/l	43000	-	-	-	28400	-	40100	-

Manganese, Total	7439-96-5	300 ug/l	-	-	-	-	-	-	-	
Mercury, Total	7439-97-6	0.7 ug/l	0.07	J	0.3	0.2	U	0.2	U	
Nickel, Total	7440-02-0	100 ug/l	121.4		437.2	31.5		93.5		
Potassium, Total	7440-09-7	ug/l	9630		16100	4640		8400		
Selenium, Total	7782-49-2	10 ug/l	8		12	3	J	4	J	
Silver, Total	7440-22-4	50 ug/l	0.38	J	0.2	0.4	U	0.1	J	
Sodium, Total	7440-23-5	20000 ug/l	27900		22600	33200		-		
Thallium, Total	7440-28-0	0.5 ug/l	0.8		1.2	0.1	J	0.7		
Vanadium, Total	7440-62-2	ug/l	74.6		109.6	12.7		72.8		
Zinc, Total	7440-66-6	2000 ug/l	219.2		380.7	84.4		206		
Volatile Organics by GC/MS - Westborough Lab										
Methylene chloride	75-09-2	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,1-Dichloroethane	75-34-3	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Chloroform	67-66-3	7 ug/l	2.5	U	6.2	U	1.5	J	2.5	U
Carbon tetrachloride	56-23-5	5 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,2-Dichloropropane	78-87-5	1 ug/l	1	U	2.5	U	1	U	1	U
Dibromochloromethane	124-48-1	50 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,1,2-Trichloroethane	79-00-5	1 ug/l	1.5	U	3.8	U	1.5	U	1.5	U
Tetrachloroethene	127-18-4	5 ug/l	100		200	63		6.1		
Chlorobenzene	108-90-7	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Trichlorofluoromethane	75-69-4	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	0.6 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Bromodichloromethane	75-27-4	50 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,3-Dichloropropene, Total	542-75-6	ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Bromoform	75-25-2	50 ug/l	2	U	5	U	2	U	2	U
1,1,2,2-Tetrachloroethane	79-34-5	5 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
Benzene	71-43-2	1 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
Toluene	108-88-3	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Ethylbenzene	100-41-4	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Chloromethane	74-87-3	ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Bromomethane	74-83-9	5 ug/l	2.5	U	6.2	U	2.6	U	2.5	U
Vinyl chloride	75-01-4	2 ug/l	1	U	2.5	U	1	U	1	U
Chloroethane	75-00-3	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
trans-1,2-Dichloroethene	156-60-5	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Trichloroethene	79-01-6	5 ug/l	63		120	34		6.8		
1,2-Dichlorobenzene	95-50-1	3 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
o-Xylene	95-47-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Xylenes, Total	1330-20-7	ug/l	2.5	U	6.2	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5 ug/l	2	J	6	J	1.8	J	2.5	U
1,2-Dichloroethene, Total	540-59-0	ug/l	2	J	6	J	1.8	J	2.5	U
Dibromomethane	74-95-3	5 ug/l	5	U	12	U	5	U	5	U
1,2,3-Trichloropropane	96-18-4	0.04 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Acrylonitrile	107-13-1	5 ug/l	5	U	12	U	5	U	5	U
Styrene	100-42-5	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Dichlorodifluoromethane	75-71-8	5 ug/l	5	U	12	U	5	U	5	U
Acetone	67-64-1	50 ug/l	2	J	12	U	2.2	J	5	U
Carbon disulfide	75-15-0	60 ug/l	5	U	12	U	1.1	J	1	J
2-Butanone	78-93-3	50 ug/l	5	U	12	U	5	U	5	U
Vinyl acetate	108-05-4	ug/l	5	U	12	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1	ug/l	5	U	12	U	5	U	5	U
2-Hexanone	591-78-6	50 ug/l	5	U	12	U	5	U	5	U
Bromochloromethane	74-97-5	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
2,2-Dichloropropane	594-20-7	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006 ug/l	2	U	5	U	2	U	2	U
1,3-Dichloropropane	142-28-9	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,1,1,2-Tetrachloroethane	630-20-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
p-Chlorotoluene	106-43-4	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U

p-Isopropyltoluene	99-87-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Naphthalene	91-20-3	10 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
n-Propylbenzene	103-65-1	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	87-61-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,3,5-Trimethylbenzene	108-67-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1	ug/l	250	U	620	U	250	U	250	U
p-Diethylbenzene	105-05-5	ug/l	2	U	5	U	2	U	2	U
p-Ethyltoluene	622-96-8	ug/l	2	U	5	U	2	U	2	U
1,2,4,5-Tetramethylbenzene	95-93-2	5 ug/l	2	U	5	U	2	U	2	U
Ethyl ether	60-29-7	ug/l	2.5	U	6.2	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U

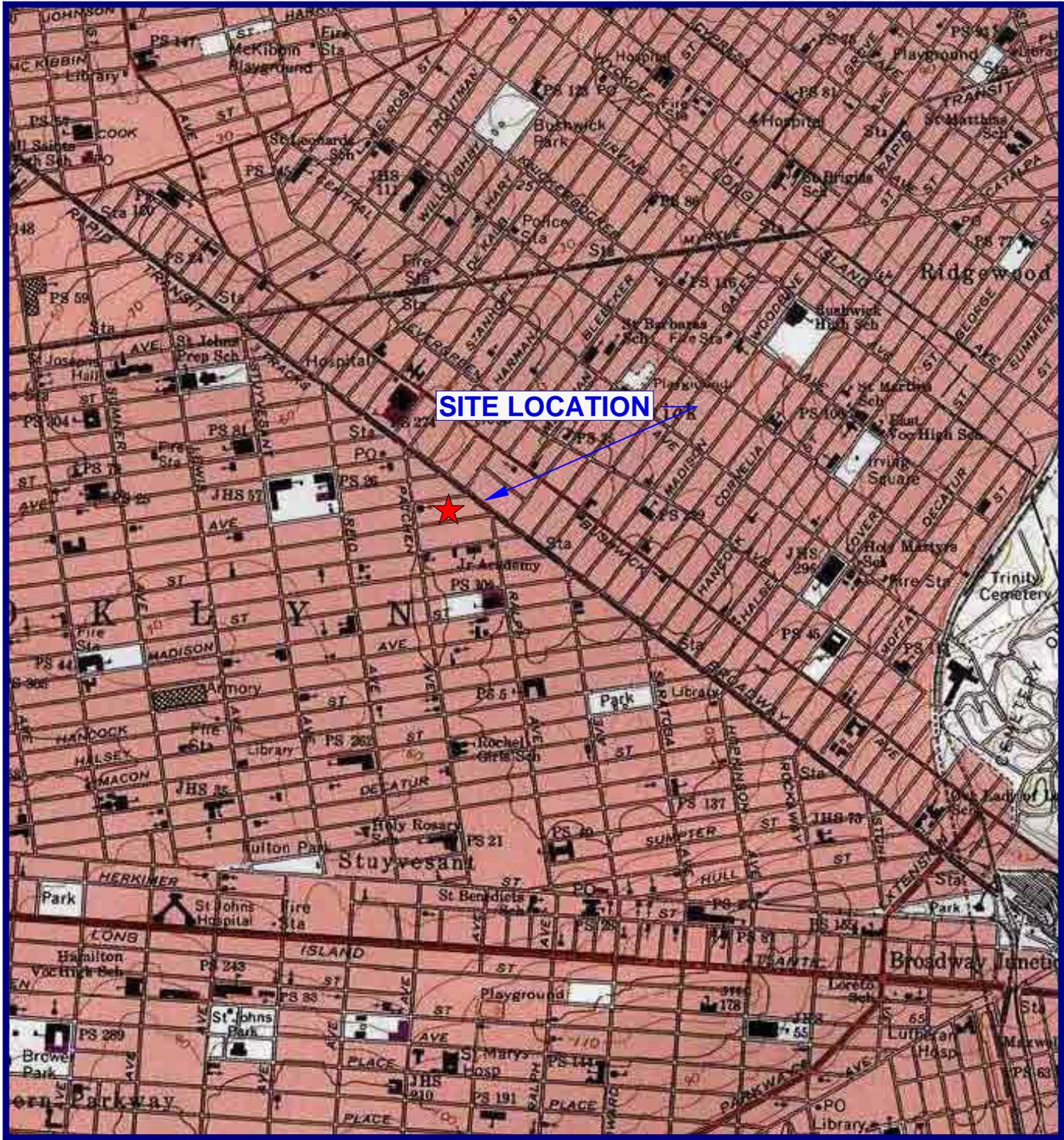
Table 4. Soil Gas Analytical Results

LOCATION			SS-1		SS-2		SS-3		
SAMPLING DATE			4/8/2015		4/8/2015		4/8/2015		
LAB SAMPLE ID	CasNum	NY-SSC	Units	L1507085-01	L1507085-02	L1507085-03	L1507085-03	Qual	
				Qual	Qual	Qual	Qual	Qual	
Volatile Organics in Air - Mansfield Lab									
Dichlorodifluoromethane	75-71-8		5 ug/m3	9.89	U	3.3	U	9.89	U
Chloromethane	74-87-3		5 ug/m3	4.13	U	1.38	U	4.13	U
Freon-114	76-14-2		5 ug/m3	14	U	4.66	U	14	U
Vinyl chloride	75-01-4		5 ug/m3	5.11	U	1.71	U	5.11	U
1,3-Butadiene	106-99-0		5 ug/m3	4.42	U	1.48	U	6.22	U
Bromomethane	74-83-9		5 ug/m3	7.77	U	2.59	U	7.77	U
Chloroethane	75-00-3		5 ug/m3	5.28	U	1.76	U	5.28	U
Ethanol	64-17-5		5 ug/m3	47.1	U	15.7	U	47.1	U
Vinyl bromide	593-60-2		5 ug/m3	8.74	U	2.92	U	8.74	U
Acetone	67-64-1		5 ug/m3	73.6	U	76.3	U	82.9	U
Trichlorofluoromethane	75-69-4		5 ug/m3	11.2	U	3.75	U	11.2	U
Isopropanol	67-63-0		5 ug/m3	13.3	U	13.7	U	12.3	U
1,1-Dichloroethene	75-35-4		5 ug/m3	7.93	U	2.64	U	7.93	U
Tertiary butyl Alcohol	75-65-0		5 ug/m3	15.2	U	9.25	U	15.9	U
Methylene chloride	75-09-2		5 ug/m3	17.4	U	5.8	U	17.4	U
3-Chloropropene	107-05-1		5 ug/m3	6.26	U	2.09	U	6.26	U
Carbon disulfide	75-15-0		5 ug/m3	6.23	U	2.54	U	41.4	U
Freon-113	76-13-1		5 ug/m3	15.3	U	5.11	U	15.3	U
trans-1,2-Dichloroethene	156-60-5		5 ug/m3	7.93	U	2.64	U	7.93	U
1,1-Dichloroethane	75-34-3		5 ug/m3	8.09	U	2.7	U	8.09	U
Methyl tert butyl ether	1634-04-4		5 ug/m3	7.21	U	2.4	U	7.21	U
2-Butanone	78-93-3		5 ug/m3	14.7	U	11.6	U	14.7	U
cis-1,2-Dichloroethene	156-59-2		5 ug/m3	7.93	U	2.64	U	7.93	U
Ethyl Acetate	141-78-6		5 ug/m3	18	U	14.7	U	27	U
Chloroform	67-66-3		5 ug/m3	9.77	U	3.26	U	9.77	U
Tetrahydrofuran	109-99-9		5 ug/m3	14.7	U	4.93	U	14.7	U
1,2-Dichloroethane	107-06-2		5 ug/m3	8.09	U	2.7	U	8.09	U
n-Hexane	110-54-3		5 ug/m3	7.05	U	3.52	U	7.05	U
1,1,1-Trichloroethane	71-55-6		5 ug/m3	10.9	U	3.64	U	10.9	U
Benzene	71-43-2		5 ug/m3	6.39	U	2.13	U	6.39	U
Carbon tetrachloride	56-23-5		5 ug/m3	12.6	U	4.2	U	12.6	U
Cyclohexane	110-82-7		5 ug/m3	6.88	U	2.3	U	6.88	U
1,2-Dichloropropane	78-87-5		5 ug/m3	9.24	U	3.08	U	9.24	U
Bromodichloromethane	75-27-4		5 ug/m3	13.4	U	4.47	U	13.4	U
1,4-Dioxane	123-91-1		5 ug/m3	7.21	U	2.4	U	7.21	U
Trichloroethene	79-01-6		5 ug/m3	3760	U	1130	U	564	U
2,2,4-Trimethylpentane	540-84-1		5 ug/m3	9.34	U	3.12	U	9.34	U
Heptane	142-82-5		5 ug/m3	8.2	U	4.39	U	8.2	U
cis-1,3-Dichloropropene	10061-01-5		5 ug/m3	9.08	U	3.03	U	9.08	U
4-Methyl-2-pentanone	108-10-1		5 ug/m3	20.5	U	6.84	U	20.5	U
trans-1,3-Dichloropropene	10061-02-6		5 ug/m3	9.08	U	3.03	U	9.08	U
1,1,1,2-Trichloroethane	79-00-5		5 ug/m3	10.9	U	3.64	U	10.9	U
Toluene	108-88-3		5 ug/m3	13.3	U	7.8	U	21.5	U
2-Hexanone	591-78-6		5 ug/m3	8.2	U	2.73	U	8.2	U
Dibromochloromethane	124-48-1		5 ug/m3	17	U	5.68	U	17	U
1,2-Dibromoethane	106-93-4		5 ug/m3	15.4	U	5.13	U	15.4	U
Tetrachloroethene	127-18-4		5 ug/m3	2400	U	685	U	365	U
Chlorobenzene	108-90-7		5 ug/m3	9.21	U	3.07	U	9.21	U
Ethylbenzene	100-41-4		5 ug/m3	8.69	U	2.9	U	8.69	U
p/m-Xylene	179601-23-1		5 ug/m3	17.4	U	7.34	U	17.4	U
Bromoform	75-25-2		5 ug/m3	20.7	U	6.9	U	20.7	U
Styrene	100-42-5		5 ug/m3	8.52	U	2.84	U	8.52	U
1,1,1,2-Tetrachloroethane	79-34-5		5 ug/m3	13.7	U	4.58	U	13.7	U
o-Xylene	95-47-6		5 ug/m3	8.69	U	2.9	U	8.69	U
4-Ethyltoluene	622-96-8		5 ug/m3	9.83	U	3.28	U	9.83	U
1,3,5-Trimethylbenzene	108-67-8		5 ug/m3	9.83	U	3.28	U	9.83	U
1,2,4-Trimethylbenzene	95-63-6		5 ug/m3	9.83	U	3.28	U	9.83	U
Benzyl chloride	100-44-7		5 ug/m3	10.4	U	3.45	U	10.4	U
1,3-Dichlorobenzene	541-73-1		5 ug/m3	12	U	4.01	U	12	U
1,4-Dichlorobenzene	106-46-7		5 ug/m3	12	U	4.01	U	12	U
1,2-Dichlorobenzene	95-50-1		5 ug/m3	12	U	4.01	U	12	U
1,2,4-Trichlorobenzene	120-82-1		5 ug/m3	14.8	U	4.95	U	14.8	U
Hexachlorobutadiene	87-68-3		5 ug/m3	21.3	U	7.11	U	21.3	U

LOCATION	SSA10	SSA20	SSA30	SSB10	SSB20	SSB30	SSC10	SSC20	SSC30		
SAMPLING DATE	6/1/2015	6/1/2015	6/1/2015	6/1/2015	6/1/2015	6/1/2015	6/1/2015	6/1/2015	6/1/2015		
LAB SAMPLE ID	L1512178-01	L1512178-02	L1512178-03	L1512178-04	L1512178-05	L1512178-06	L1512178-07	L1512178-08	L1512178-09		
CasNum	NY-SSC	Units	Qual								
Volatile Organics in Air - Mansfield Lab											
Dichlorodifluoromethane	75-71-8	5 ug/m3	35.4 U	19.8 U	31.9 U	17.5 U	57.4 U	33.6 U	3.45 U	16.4 U	19.9 U
Chloromethane	74-87-3	5 ug/m3	14.8 U	8.26 U	13.3 U	7.31 U	24 U	14 U	0.413 U	6.84 U	8.3 U
Freon-114	76-14-2	5 ug/m3	50 U	28 U	45.2 U	24.7 U	81.1 U	47.5 U	1.4 U	23.1 U	28.1 U
Vinyl chloride	75-01-4	5 ug/m3	18.3 U	10.2 U	16.5 U	9.05 U	29.7 U	17.4 U	0.511 U	8.46 U	10.3 U
1,3-Butadiene	106-99-0	5 ug/m3	15.8 U	73.2 U	14.3 U	7.83 U	25.7 U	15 U	0.779 U	7.32 U	8.89 U
Bromomethane	74-83-9	5 ug/m3	27.8 U	15.5 U	25.1 U	13.7 U	45 U	26.4 U	0.777 U	12.9 U	15.6 U
Chloroethane	75-00-3	5 ug/m3	18.9 U	10.6 U	17 U	9.34 U	30.6 U	17.9 U	0.528 U	8.73 U	10.6 U
Ethanol	64-17-5	5 ug/m3	169 U	94.2 U	152 U	83.3 U	273 U	160 U	4.71 U	77.8 U	94.6 U
Vinyl bromide	593-60-2	5 ug/m3	31.3 U	17.5 U	28.2 U	15.5 U	50.7 U	29.7 U	0.874 U	14.5 U	17.6 U
Acetone	67-64-1	5 ug/m3	865 U	1870 U	684 U	42 U	138 U	80.8 U	42.5 U	39.2 U	47.7 U
Trichlorofluoromethane	75-69-4	5 ug/m3	40.2 U	22.5 U	36.3 U	19.9 U	65.2 U	38.2 U	1.62 U	18.6 U	22.6 U
Isopropanol	67-63-0	5 ug/m3	44 U	24.6 U	39.8 U	21.8 U	71.3 U	41.8 U	2.39 U	20.3 U	24.6 U
1,1-Dichloroethene	75-35-4	5 ug/m3	55.9 U	16.2 U	25.6 U	14 U	46 U	26.9 U	0.793 U	13.1 U	15.9 U
Tertiary butyl Alcohol	75-65-0	5 ug/m3	54.3 U	30.3 U	49.1 U	26.8 U	87.9 U	51.5 U	1.52 U	25 U	30.3 U
Methylene chloride	75-09-2	5 ug/m3	62.2 U	34.7 U	56.3 U	30.7 U	101 U	59.1 U	7.54 U	28.7 U	34.7 U
3-Chloropropene	107-05-1	5 ug/m3	22.4 U	12.5 U	20.2 U	11.1 U	36.3 U	21.3 U	0.626 U	10.4 U	12.6 U
Carbon disulfide	75-15-0	5 ug/m3	215 U	85.6 U	20.1 U	14.8 U	36.1 U	21.1 U	40.2 U	10.3 U	12.5 U
Freon-113	76-13-1	5 ug/m3	54.9 U	30.7 U	49.5 U	27.1 U	88.9 U	52 U	1.53 U	25.4 U	30.8 U
trans-1,2-Dichloroethene	156-60-5	5 ug/m3	28.4 U	15.9 U	25.6 U	14 U	46 U	26.9 U	0.793 U	13.1 U	15.9 U
1,1-Dichloroethane	75-34-3	5 ug/m3	29 U	16.2 U	26.1 U	14.3 U	47 U	27.5 U	0.809 U	13.4 U	16.3 U
Methyl tert butyl ether	1634-04-4	5 ug/m3	25.8 U	14.4 U	23.3 U	12.8 U	41.8 U	24.5 U	0.721 U	11.9 U	14.5 U
2-Butanone	78-93-3	5 ug/m3	58.7 U	9.7 U	52.5 U	26.1 U	85.5 U	50.1 U	3.24 U	24.4 U	29.5 U
cis-1,2-Dichloroethene	156-59-2	5 ug/m3	28.4 U	26.7 U	507 U	34.8 U	872 U	555 U	1.48 U	188 U	253 U
Ethyl Acetate	141-78-6	5 ug/m3	64.5 U	36 U	58.4 U	31.9 U	105 U	61.3 U	1.8 U	29.8 U	36 U
Chloroform	67-66-3	5 ug/m3	35 U	23.4 U	31.5 U	17.3 U	56.6 U	33.2 U	7.33 U	16.2 U	19.6 U
Tetrahydrofuran	109-99-9	5 ug/m3	52.8 U	29.5 U	47.8 U	26.1 U	85.5 U	50.1 U	1.47 U	24.4 U	29.5 U
1,2-Dichloroethane	107-06-2	5 ug/m3	29 U	16.2 U	26.1 U	14.3 U	47 U	27.5 U	0.809 U	13.4 U	16.3 U
n-Hexane	110-54-3	5 ug/m3	29.8 U	65.2 U	22.8 U	12.5 U	40.9 U	23.9 U	19.2 U	11.7 U	14.2 U
1,1,1-Trichloroethane	71-55-6	5 ug/m3	39.1 U	21.8 U	35.2 U	19.3 U	63.3 U	37 U	1.09 U	18.1 U	21.9 U
Benzene	71-43-2	5 ug/m3	22.9 U	13.5 U	20.6 U	11.3 U	37.1 U	21.7 U	4.22 U	10.6 U	12.8 U
Carbon tetrachloride	56-23-5	5 ug/m3	45 U	25.2 U	40.6 U	22.3 U	73 U	42.7 U	1.26 U	20.8 U	25.3 U
Cyclohexane	110-82-7	5 ug/m3	24.6 U	13.8 U	22.2 U	12.2 U	39.9 U	23.4 U	5.44 U	11.4 U	13.8 U
1,2-Dichloropropane	78-87-5	5 ug/m3	33.1 U	18.5 U	29.9 U	16.4 U	53.6 U	31.4 U	0.924 U	15.3 U	18.6 U
Bromodichloromethane	75-27-4	5 ug/m3	48 U	26.8 U	43.3 U	23.7 U	77.7 U	45.5 U	1.34 U	22.2 U	26.9 U
1,4-Dioxane	123-91-1	5 ug/m3	25.8 U	14.4 U	23.3 U	12.8 U	41.8 U	24.5 U	0.721 U	11.9 U	14.5 U
Trichloroethene	79-01-6	5 ug/m3	13100 U	9140 U	10900 U	7580 U	19200 U	11100 U	446 U	7470 U	7630 U
2,2,4-Trimethylpentane	540-84-1	5 ug/m3	33.4 U	18.7 U	30.2 U	16.5 U	54.2 U	31.7 U	0.934 U	15.5 U	18.8 U
Heptane	142-82-5	5 ug/m3	29.3 U	20.4 U	26.5 U	31.4 U	47.5 U	27.8 U	70.5 U	13.6 U	16.5 U
cis-1,3-Dichloropropene	10061-01-5	5 ug/m3	32.5 U	18.2 U	29.3 U	16.1 U	52.7 U	30.8 U	0.908 U	15 U	18.3 U
4-Methyl-2-pentanone	108-10-1	5 ug/m3	73.4 U	41 U	66.4 U	36.3 U	119 U	69.7 U	2.05 U	33.9 U	41 U
trans-1,3-Dichloropropene	10061-02-6	5 ug/m3	32.5 U	18.2 U	29.3 U	16.1 U	52.7 U	30.8 U	0.908 U	15 U	18.3 U
1,1,2-Trichloroethane	79-00-5	5 ug/m3	39.1 U	21.8 U	35.2 U	19.3 U	63.3 U	37 U	1.09 U	18.1 U	21.9 U
Toluene	108-88-3	5 ug/m3	27 U	19.2 U	24.3 U	21.6 U	43.7 U	25.6 U	21.3 U	15.5 U	15.1 U
2-Hexanone	591-78-6	5 ug/m3	29.3 U	22.4 U	26.5 U	14.5 U	47.5 U	27.8 U	0.82 U	13.6 U	16.5 U
Dibromochloromethane	124-48-1	5 ug/m3	61 U	34.1 U	55 U	30.2 U	98.8 U	57.8 U	1.7 U	28.2 U	34.2 U
1,2-Dibromoethane	106-93-4	5 ug/m3	55 U	30.7 U	49.6 U	27.2 U	89.1 U	52.2 U	1.54 U	25.4 U	30.9 U
Tetrachloroethene	127-18-4	5 ug/m3	8070 U	3710 U	3020 U	2350 U	9090 U	3810 U	471 U	1680 U	1080 U
Chlorobenzene	108-90-7	5 ug/m3	33 U	18.4 U	29.8 U	16.3 U	53.4 U	31.3 U	0.921 U	15.2 U	18.5 U
Ethylbenzene	100-41-4	5 ug/m3	31.1 U	17.4 U	28.1 U	15.4 U	50.4 U	29.5 U	4.65 U	14.4 U	17.5 U
p/m-Xylene	179601-23-1	5 ug/m3	62.1 U	34.7 U	56 U	30.8 U	101 U	59.1 U	15.3 U	28.7 U	34.9 U
Bromoform	75-25-2	5 ug/m3	74 U	41.4 U	66.8 U	36.6 U	120 U	70.2 U	2.07 U	34.2 U	41.6 U
Styrene	100-42-5	5 ug/m3	30.5 U	17 U	27.5 U	15.1 U	49.4 U	28.9 U	0.852 U	14.1 U	17.1 U
1,1,2,2-Tetrachloroethane	79-34-5	5 ug/m3	49.2 U	27.5 U	44.4 U	24.3 U	79.7 U	46.6 U	1.37 U	22.7 U	27.6 U
o-Xylene	95-47-6	5 ug/m3	31.1 U	17.4 U	28.1 U	15.4 U	50.4 U	29.5 U	6.91 U	14.4 U	17.5 U
4-Ethyltoluene	622-96-8	5 ug/m3	35.2 U	19.7 U	31.8 U	17.4 U	57 U	33.4 U	1.06 U	16.3 U	19.8 U
1,3,5-Trimethylbenzene	108-67-8	5 ug/m3	35.2 U	19.7 U	31.8 U	17.4 U	57 U	33.4 U	1.39 U	16.3 U	19.8 U
1,2,4-Trimethylbenzene	95-63-6	5 ug/m3	35.2 U	19.7 U	31.8 U	17.4 U	57 U	33.4 U	3.32 U	16.3 U	19.8 U
Benzyl chloride	100-44-7	5 ug/m3	37.1 U	20.7 U	33.4 U	18.3 U	60.1 U	35.2 U	1.04 U	17.1 U	20.8 U
1,3-Dichlorobenzene	541-73-1	5 ug/m3	43 U	24 U	38.8 U	21.3 U	69.7 U	40.8 U	1.2 U	19.9 U	24.2 U
1,4-Dichlorobenzene	106-46-7	5 ug/m3	43 U	24 U	38.8 U	21.3 U	69.7 U	40.8 U	1.2 U	19.9 U	24.2 U
1,2-Dichlorobenzene	95-50-1	5 ug/m3	43 U	24 U	38.8 U	21.3 U	69.7 U	40.8 U	1.2 U	19.9 U	24.2 U
1,2,4-Trichlorobenzene	120-82-1	5 ug/m3	53.2 U	29.7 U	48 U	26.3 U	89.1 U	50.4 U	1.48 U	24.6 U	29.8 U
Hexachlorobutadiene	87-68-3	5 ug/m3	76.4 U	42.7 U	68.9 U	37.8 U	124 U	72.4 U	2.13 U	35.3 U	42.9 U

LOCATION	SSD10	SSD20	SSD30	SSD30
SAMPLING DATE	7/14/2015	7/14/2015	7/14/2015	7/14/2015
LAB SAMPLE ID	L1516251-01	L1516251-02	L1516251-03	L1516251-03 R1
CasNum	NY-SSC	Units	Qual	Qual
Volatile Organics in Air - Mansfield Lab				
Dichlorodifluoromethane	75-71-8	5 ug/m3	3.3 U	19.7
Chloromethane	74-87-3	5 ug/m3	1.38 U	4.13 U
Freon-114	76-14-2	5 ug/m3	4.66 U	14 U
Vinyl chloride	75-01-4	5 ug/m3	1.71 U	5.11 U
1,3-Butadiene	106-99-0	5 ug/m3	64.6	17
Bromomethane	74-83-9	5 ug/m3	2.59 U	7.77 U
Chloroethane	75-00-3	5 ug/m3	1.76 U	5.28 U
Ethanol	64-17-5	5 ug/m3	18.3	47.1 U
Vinyl bromide	593-60-2	5 ug/m3	2.92 U	8.74 U
Acetone	67-64-1	5 ug/m3	1250	1390
Trichlorofluoromethane	75-69-4	5 ug/m3	3.75 U	11.2 U
Isopropanol	67-63-0	5 ug/m3	4.1 U	12.3 U
1,1-Dichloroethene	75-35-4	5 ug/m3	2.64 U	7.93 U
Tertiary butyl Alcohol	75-65-0	5 ug/m3	5.06 U	15.2 U
Methylene chloride	75-09-2	5 ug/m3	5.8 U	17.4 U
3-Chloropropene	107-05-1	5 ug/m3	2.09 U	6.28 U
Carbon disulfide	75-15-0	5 ug/m3	10.3	6.23 U
Freon-113	76-13-1	5 ug/m3	5.11 U	15.3 U
trans-1,2-Dichloroethene	156-60-5	5 ug/m3	2.64 U	7.93 U
1,1-Dichloroethane	75-34-3	5 ug/m3	2.7 U	8.09 U
Methyl tert butyl ether	1634-04-4	5 ug/m3	2.4 U	7.21 U
2-Butanone	78-93-3	5 ug/m3	24.6	15.5 U
cis-1,2-Dichloroethene	156-59-2	5 ug/m3	2.64 U	156
Ethyl Acetate	141-78-6	5 ug/m3	6.02 U	18 U
Chloroform	67-66-3	5 ug/m3	21.4	9.77 U
Tetrahydrofuran	109-99-9	5 ug/m3	4.93 U	14.7 U
1,2-Dichloroethane	107-06-2	5 ug/m3	2.7 U	8.09 U
n-Hexane	110-54-3	5 ug/m3	24.7	7.05 U
1,1,1-Trichloroethane	71-55-6	5 ug/m3	4.02 U	10.9 U
Benzene	71-43-2	5 ug/m3	10.8	6.39 U
Carbon tetrachloride	56-23-5	5 ug/m3	4.2 U	12.6 U
Cyclohexane	110-82-7	5 ug/m3	3.51 U	6.88 U
1,2-Dichloropropane	78-87-5	5 ug/m3	3.08 U	9.24 U
Bromodichloromethane	75-27-4	5 ug/m3	4.47 U	13.4 U
1,4-Dioxane	123-91-1	5 ug/m3	2.4 U	7.21 U
Trichloroethene	79-01-6	5 ug/m3	490	3000
2,2,4-Trimethylpentane	540-84-1	5 ug/m3	3.12 U	9.34 U
Heptane	142-82-5	5 ug/m3	11.1	8.2 U
cis-1,3-Dichloropropene	10061-01-5	5 ug/m3	3.03 U	9.08 U
4-Methyl-2-pentanone	108-10-1	5 ug/m3	6.84 U	20.5 U
trans-1,3-Dichloropropene	10061-02-6	5 ug/m3	3.03 U	9.08 U
1,1,2-Trichloroethane	79-00-5	5 ug/m3	3.64 U	10.9 U
Toluene	108-88-3	5 ug/m3	10.4	7.54 U
2-Hexanone	591-78-6	5 ug/m3	2.73 U	8.2 U
Dibromochloromethane	124-48-1	5 ug/m3	5.68 U	17 U
1,2-Dibromoethane	106-93-4	5 ug/m3	5.13 U	15.4 U
Tetrachloroethene	127-18-4	5 ug/m3	50.2	57.7
Chlorobenzene	108-90-7	5 ug/m3	3.07 U	9.21 U
Ethylbenzene	100-41-4	5 ug/m3	2.9 U	8.69 U
p/m-Xylene	179601-23-1	5 ug/m3	5.78 U	17.4 U
Bromoform	75-25-2	5 ug/m3	6.9 U	20.7 U
Styrene	100-42-5	5 ug/m3	2.84 U	8.52 U
1,1,2,2-Tetrachloroethane	79-34-5	5 ug/m3	4.58 U	13.7 U
o-Xylene	95-47-6	5 ug/m3	2.9 U	8.69 U
4-Ethyltoluene	622-96-8	5 ug/m3	3.28 U	9.83 U
1,3,5-Trimethylbenzene	108-67-8	5 ug/m3	3.28 U	9.83 U
1,2,4-Trimethylbenzene	95-63-6	5 ug/m3	3.28 U	9.83 U
Benzyl chloride	100-44-7	5 ug/m3	3.45 U	10.4 U
1,3-Dichlorobenzene	541-73-1	5 ug/m3	4.01 U	12 U
1,4-Dichlorobenzene	106-46-7	5 ug/m3	4.01 U	12 U
1,2-Dichlorobenzene	95-50-1	5 ug/m3	4.01 U	12 U
1,2,4-Trichlorobenzene	120-82-1	5 ug/m3	4.95 U	14.8 U
Hexachlorobutadiene	87-68-3	5 ug/m3	7.11 U	21.3 U

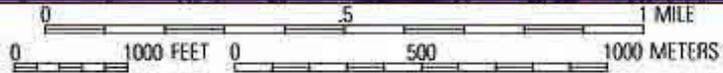
FIGURES



SITE LOCATION



MN 134° TN



USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet



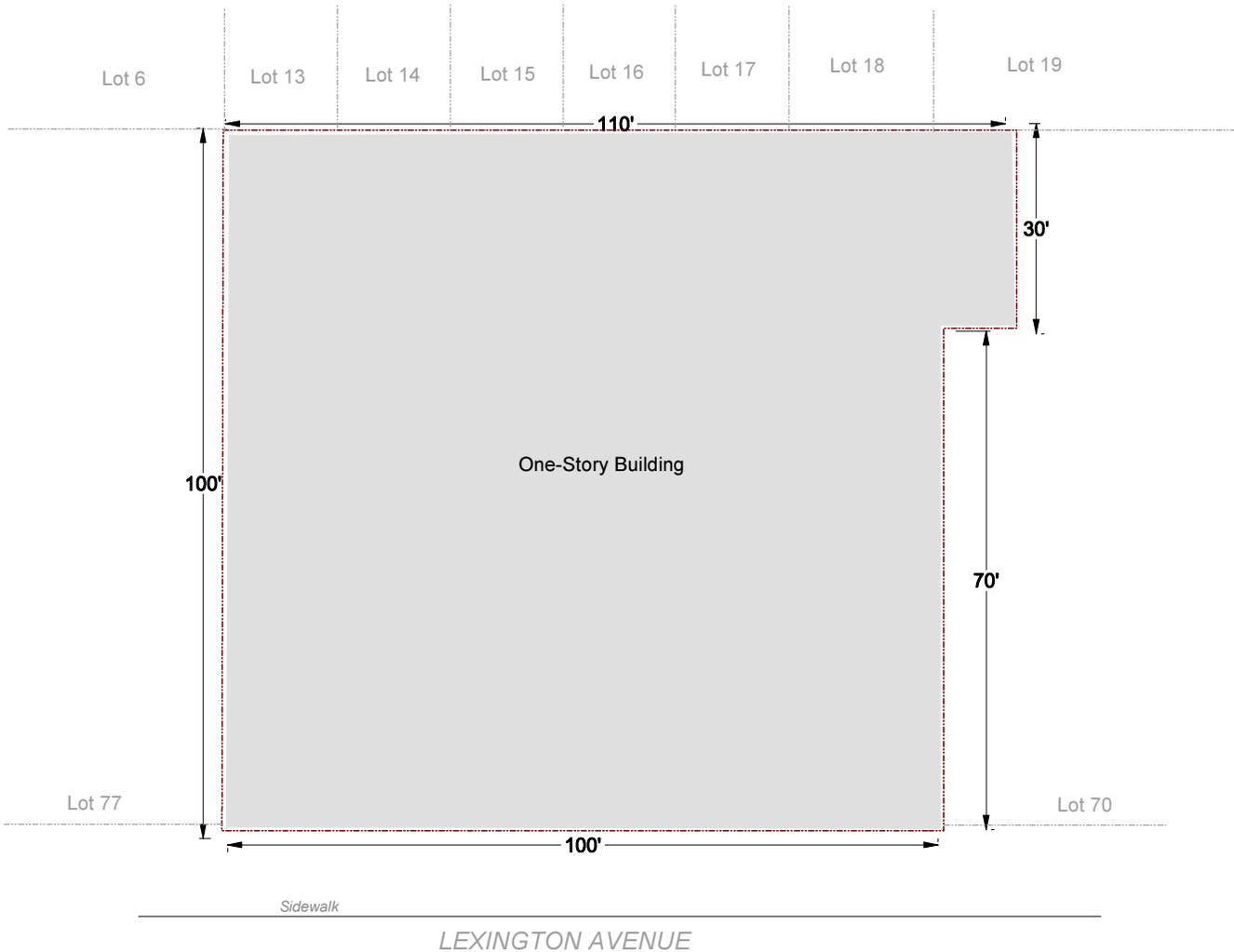
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Fax 631.924.2870

**843 LEXINGTON AVENUE
BROOKLYN, NY**

FIGURE 1

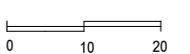
SITE LOCATION MAP



KEY:

--- Property Boundary

SCALE:



Scale: 1 inch = 20 feet



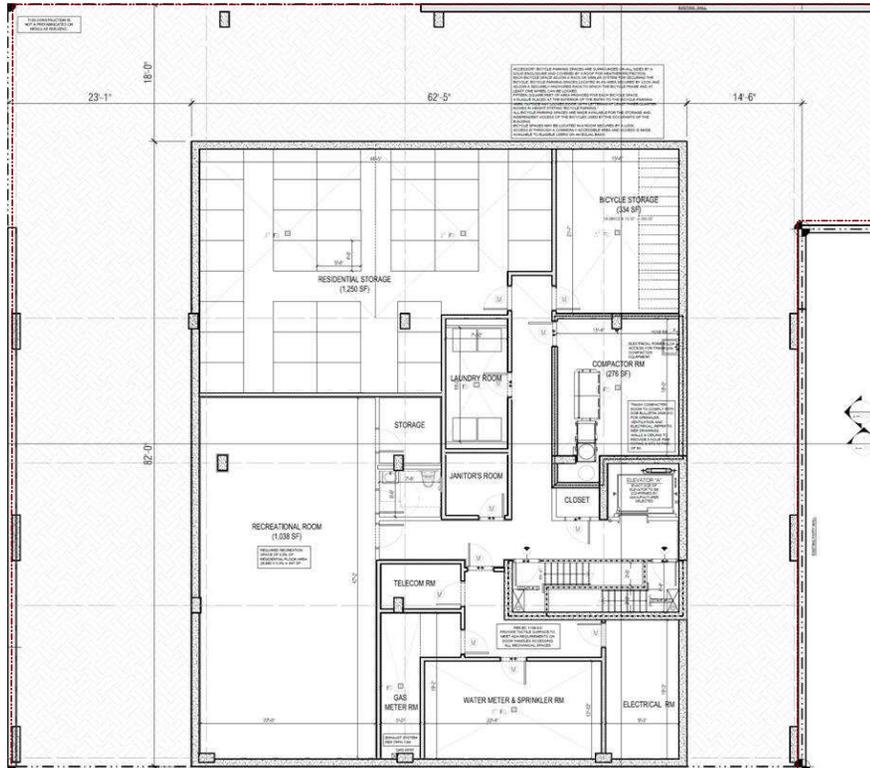
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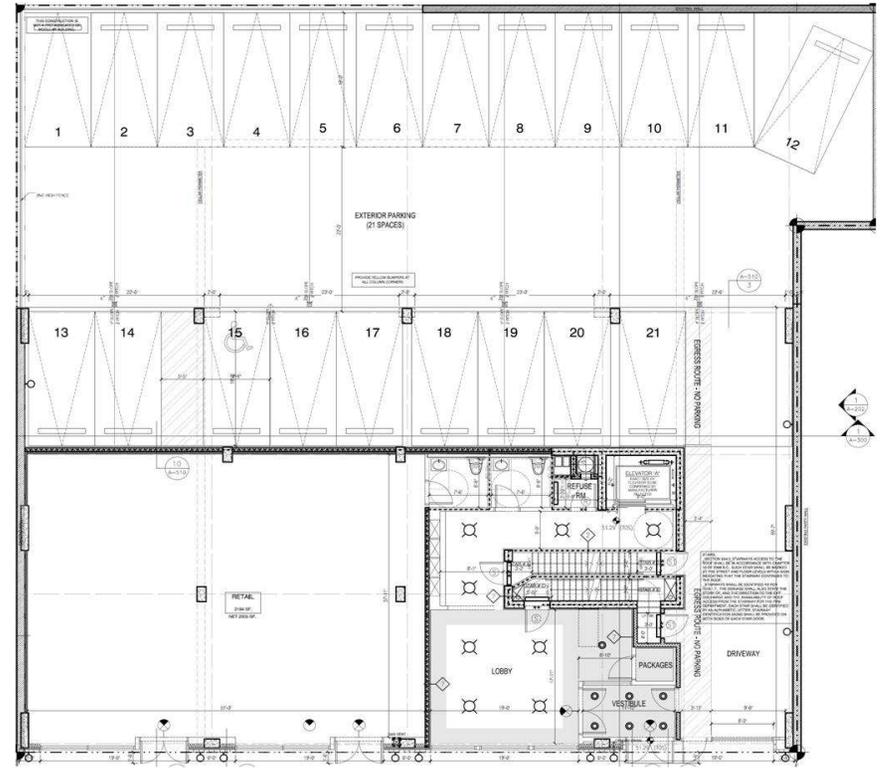
Figure No.
2

Site Name: **REDEVELOPMENT PROJECT**
Site Address: **843 LEXINGTON AVENUE, BROOKLYN, NY**
Drawing Title: **SITE BOUNDARY MAP**

CELLAR



FIRST FLOOR



KEY:

--- Property Boundary

SCALE:



Scale: 1 inch = 20 feet



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Figure No.
3

Site Name: **REDEVELOPMENT PROJECT**

Site Address: **843 LEXINGTON AVENUE, BROOKLYN, NY**

Drawing Title: **REDEVELOPMENT PLAN**



- Land Use**
- Block/Lot Boundaries
- (Building footprints in gray)
- 1 & 2 Family Residential
 - Multi-family Residential
 - Mixed Use
 - Open space & outdoor recreation
 - Commercial
 - Institutions
 - Industrial
 - Parking
 - Transportation / Utilities
 - Vacant Lots



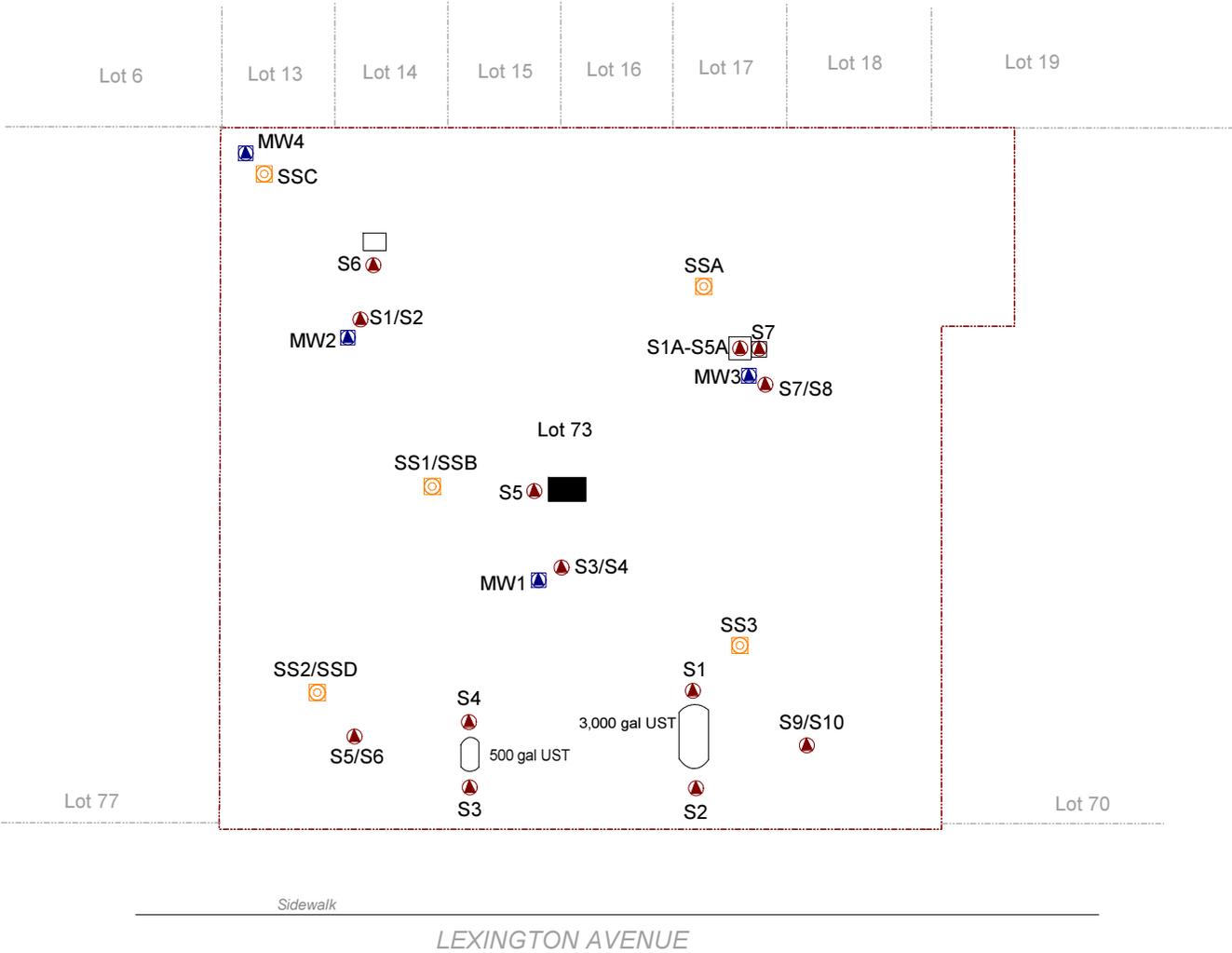
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Figure No.

4

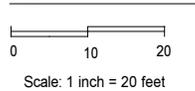
Site Name: **REDEVELOPMENT PROJECT**
 Site Address: **843 LEXINGTON AVENUE, BROOKLYN, NY**
 Drawing Title: **SURROUNDING LAND USE MAP**



KEY:

- Property Boundary
- Drain Structure
- Pit Structure
- Groundwater Sampling Location
- Soil Boring Location
- Soil Vapor Location

SCALE:



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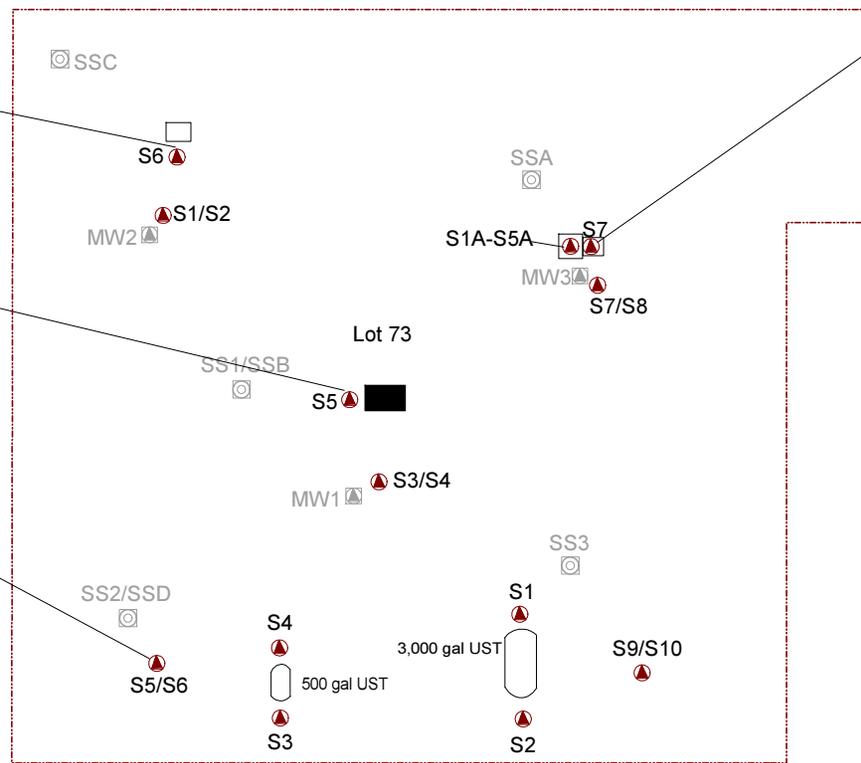
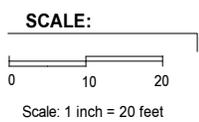
Figure No.
5

Site Name: **REDEVELOPMENT PROJECT**
Site Address: **843 LEXINGTON AVENUE, BROOKLYN, NY**
Drawing Title: **SITE SAMPLING LOCATIONS**

S6 (3-4 ft)	12/5/2014
Iron	10,000

S5 (3-4 ft)	12/5/2014
Iron	17,000

S5 (1-1.5)	4/8/2015
Mercury	0.22



S7 (0.5-1.5 ft)	12/5/2014
Bis(2-ethylhexyl)phthalate	110
Benzo(b)fluoranthene	1.3
Indeno(1,2,3-cd)pyrene	1.1
Arsenic	30
Barium	370
Copper	1,000
Iron	74,000
Lead	340
Mercury	1.6
Nickel	100
Silver	47
Zinc	1,300

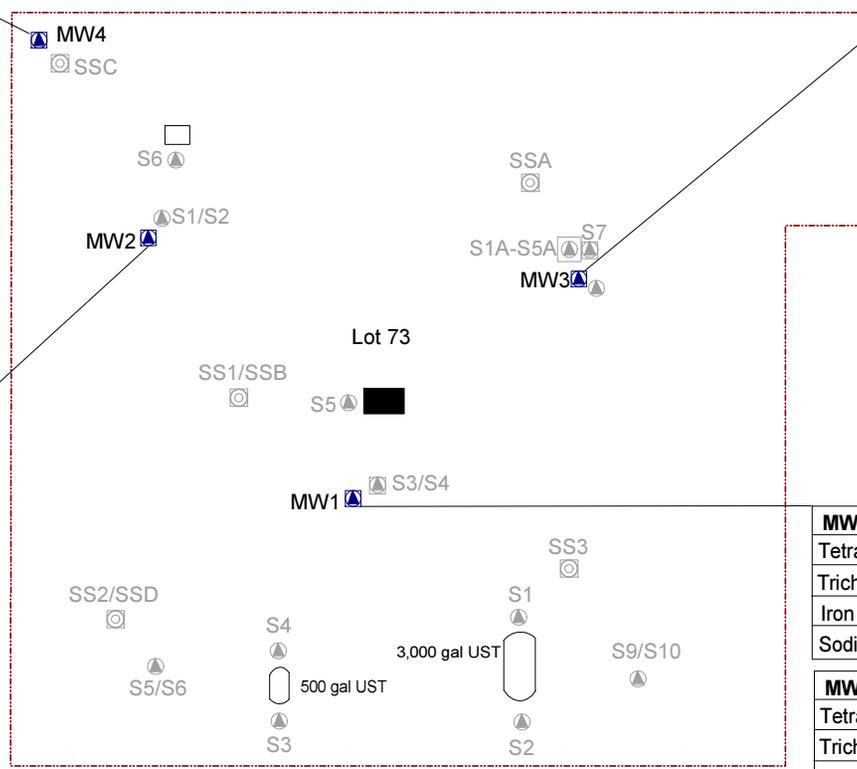
- KEY:**
- Property Boundary
 - Drain Structure
 - Pit Structure
 - Groundwater Sampling Location
 - Soil Boring Location
 - Soil Vapor Location
 - Concentration Exceeds RRSCO
 - Concentration Exceeds UUSCO

Notes: All concentrations units are reported as mg/kg
Soil samples S1A-S5A analyzed for copper only

MW4		7/15/2015
Tetrachloroethene		100
Trichloroethene		63
Chromium (Total)		96.3
Lead (Total)		54.9
Magnesium (Total)		43,000
Nickel (Total)		121.4
Sodium (Total)		27,900
Sodium (Dissolved)		22,800
Thallium (Total)		0.8

MW2		4/8/2015
Tetrachloroethene		150
Trichloroethene		80
Chromium (Total)		54.6
Iron (Total)		39,500
Nickel (Total)		107.8
Sodium (Total)		39,400

MW2		7/15/2015
Tetrachloroethene		200
Trichloroethene		120
cis-1,2-Dichloroethene		6
Beryllium (Total)		3.3
Chromium (Total)		328.1
Copper (Total)		366.6
Lead (Total)		101.6
Nickel (Total)		437.2
Selenium (Total)		12
Sodium (Total)		22,600
Thallium (Total)		1.2



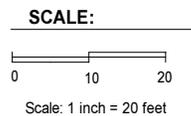
MW3		4/8/2015
Tetrachloroethene		210
Trichloroethene		120
cis-1,2-Dichloroethene		6
Chromium (Total)		106.6
Magnesium (Total)		42,500
Nickel (Total)		213.7
Sodium (Total)		33,800
Thallium (Total)		0.7

MW3		7/15/2015
Tetrachloroethene		63
Trichloroethene		34
Iron (Total)		12,000
Sodium (Total)		33,200

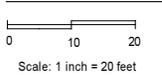
MW1		4/8/2015
Tetrachloroethene		6.8
Trichloroethene		7.3
Iron (Total)		15,800
Sodium (Total)		45,400

MW1		7/15/2015
Tetrachloroethene		6.1
Trichloroethene		6.8
Chromium (Total)		91.4
Copper (Total)		316.1
Lead (Total)		35.1
Magnesium (Total)		41,100
Thallium (Total)		0.7

- KEY:**
- Property Boundary
 - Drain Structure
 - Pit Structure
 - Groundwater Sampling Location
 - Soil Boring Location
 - Soil Vapor Location



SCALE:



SS1		4/8/2015
Acetone		73.6
Isopropanol		13.3
Trichloroethene		3,760
Toluene		13.3
Tetrachloroethene		2,400

SSB 10		6/1/2015
Carbon Disulfide		14.8
cis-1,2-Dichloroethene		34.8
Trichloroethene		7,580
Heptane		31.4
Toluene		21.6
Tetrachloroethene		2,350

SSB 20		6/1/2015
cis-1,2-Dichloroethene		872
Trichloroethene		19,200
Tetrachloroethene		9,090

SSB 30		6/1/2015
cis-1,2-Dichloroethene		555
Trichloroethene		11,100
Tetrachloroethene		3,810

SS2		4/8/2015
Acetone		76.3
Isopropanol		13.7
Tertiary butyl alcohol		9.25
2-Butanone		11.6
Ethyl Acetate		14.7
Trichloroethene		1,130
Toluene		7.8
Tetrachloroethene		685
p/m Xylene		7.34

SSD 10		6/1/2015
1,3-Butadiene		64.6
Ethanol		18.3
Acetone		1,250
Carbon Disulfide		10.3
2-Butanone		24.6
Chloroform		21.4
n-Hexane		24.7
Benzene		10.8
Trichloroethene		490
Heptane		11.1
Toluene		10.4
Tetrachloroethene		50.2

SSC 10		6/1/2015
Acetone		42.5
Methylene Chloride		7.54
Carbon Disulfide		40.2
Chloroform		7.33
n-Hexane		19.2
Cyclohexane		5.44
Trichloroethene		446
Heptane		70.5
Toluene		21.3
Tetrachloroethene		471
p/m Xylene		15.3
o Xylene		6.91

SSC 20		6/1/2015
cis-1,2-Dichloroethene		188
Trichloroethene		7,470
Toluene		15.5
Tetrachloroethene		1,680

SSC 30		6/1/2015
cis-1,2-Dichloroethene		253
Trichloroethene		7,630
Tetrachloroethene		1,080

KEY:

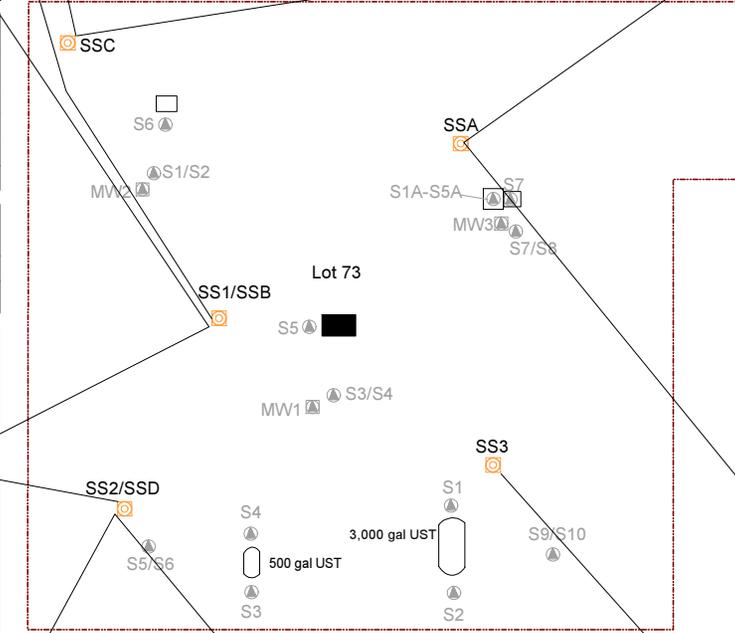
- Property Boundary
- Drain Structure
- Pit Structure
- Groundwater Sampling Location
- Soil Boring Location
- Soil Vapor Location

SSA 10		6/1/2015
Acetone		865
1,1-Dichloroethene		55.9
Carbon Disulfide		215
2-Butanone		58.7
n-Hexane		29.8
Trichloroethene		13,100
Tetrachloroethene		8,070

SSA 20		6/1/2015
1,3-Butadiene		73.2
Acetone		1,870
1,1-Dichloroethene		16.2
Carbon Disulfide		85.6
2-Butanone		97
cis-1,2-Dichloroethene		26.7
Chloroform		23.4
n-Hexane		65.2
Benzene		13.5
Trichloroethene		9,140
Heptane		20.4
Toluene		19.2
2-Hexanone		22.4
Tetrachloroethene		3,710

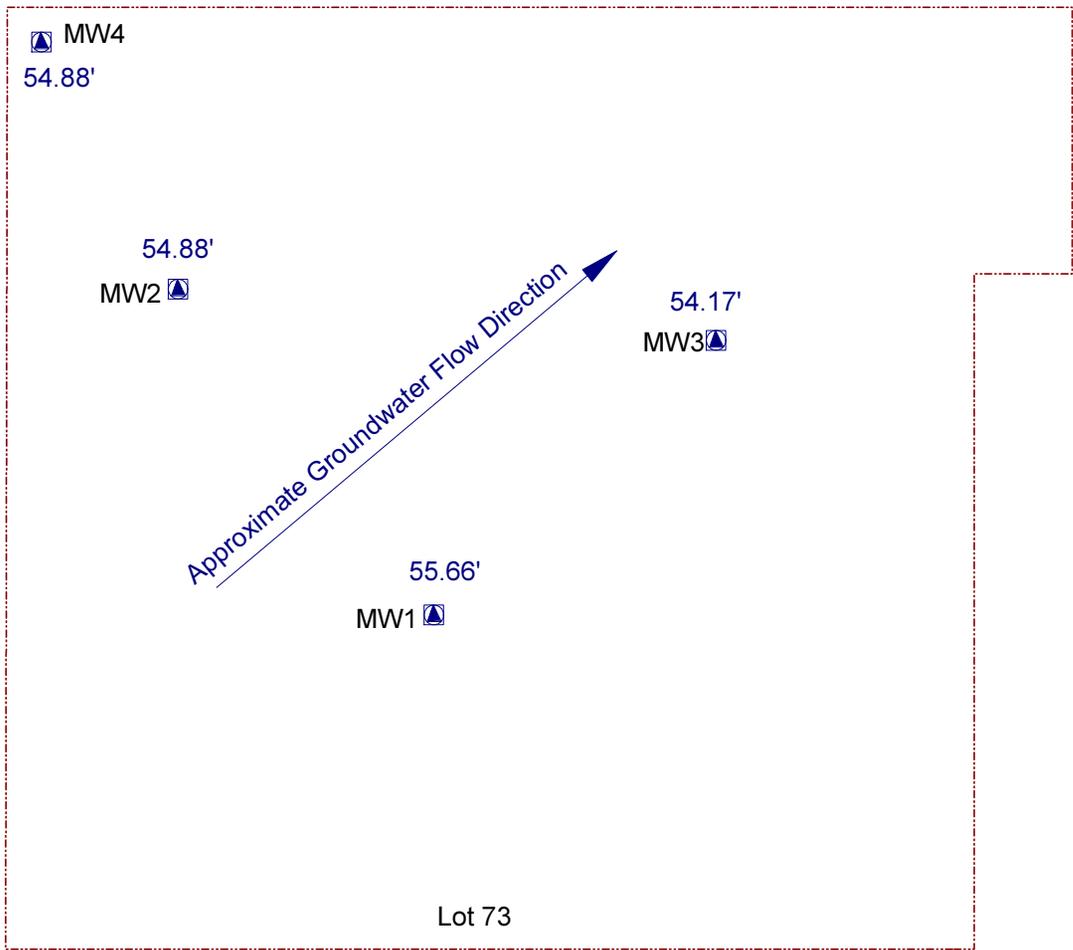
SSA 30		6/1/2015
Acetone		684
2-Butanone		52.5
cis-1,2-Dichloroethene		507
Trichloroethene		10,900
Tetrachloroethene		3,020

SS3		4/8/2015
1,3-Butadiene		6.22
Acetone		82.9
Tertiary butyl alcohol		15.9
Carbon Disulfide		41.4
Ethyl Acetate		27
Trichloroethene		564
Toluene		21.5
Tetrachloroethene		365



SSD 20		6/1/2015
Dichlorodifluoromethane		19.7
1,3-Butadiene		17
Acetone		1,390
2-Butanone		15.5
cis-1,2-Dichloroethene		156
Trichloroethene		3,000
Tetrachloroethene		57.7

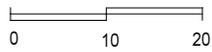
SSD 30		6/1/2015
Dichlorodifluoromethane		19.7
1,3-Butadiene		7.48
Acetone		995
cis-1,2-Dichloroethene		646
Chloroform		9.96
Benzene		14.7
Trichloroethene		5,570
Tetrachloroethene		20.4



KEY:

- - - Property Boundary
- ▲ Groundwater Sampling Location

SCALE:



Scale: 1 inch = 20 feet

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Figure No.
9

Site Name: **REDEVELOPMENT PROJECT**
 Site Address: **843 LEXINGTON AVENUE, BROOKLYN, NY**
 Drawing Title: **GROUNDWATER ELEVATION MAP**

ATTACHMENT A
Previous Reports



599 Springfield Avenue, Berkeley Heights, NJ 07922

August 10, 2015

Mr. Abe Caller
(sent via e-mail)

Re: Phase II Investigation
843-847 Lexington Avenue
Block 1623/Lot 73
Brooklyn, NY

Dear Mr. Caller:

Per your request, TERMS Environmental Services, Inc. performed the Phase II investigations at the above referenced site and completed this summary letter.

Background

TERMS reviewed the 4/4/05 Phase I Report prepared by Middleton Environmental for the above referenced site. Middleton recommended performing a Phase II investigation for the two (2) Areas of Concerns (AOC) that were identified, specifically a 550 gallon gasoline UST and a 3,000 gallon heating oil UST. Additional borings and soil sampling were also performed in drain and pit area locations identified by TERMS.

GPR Investigation and Visual Reconnaissance

On November 25, 2014 TERMS performed ground penetrating radar (GPR) survey in order to assist in determining USTs/Piping locations. The survey did assist in determining the exact location of the oil and gasoline UST's and piping. The gas UST was determined to be 40 inches below grade. The dimensions were approximated to be 4ft diameter by 6 feet in length. The piping was located 18 inches below grade and extended approximately 15 ft to a remote fill located in the sidewalk adjacent to the street. The oil UST was determined to be 25 inches below grade. The dimensions were approximated to be 7 ft diameter by 12 feet in length. The piping was located 8 inches below grade and extended approximately 15 ft to a remote fill located in the sidewalk adjacent to the street. No additional anomalies were noted.

Visual observations noted 2 drain locations and a masonry pit location. Drain 1 was noted to be a 2ft X 2.5 ft brick and mortar lined pit situated 2.5 ft below grade. Drain 2 Area contained two pit locations. Drain 2A was a 1ft x 1ft by 1 ft in depth shallow wood brick and mortar pit. Drain 2B was noted to be a 2ft x 2.5 ft brick and mortar lined pit situated 2.5 ft below grade. This pit contained a pipe and valve. The base appeared to be not of sound integrity. The masonry pit was approximately 10 x 10 by 2ft in depth constructed in block and cement.

Boring and Sample Investigation

On December 5, 2014 TERMS and Team Drilling (Geoprobe) were on site to perform a sampling investigation to assist in identifying potential impacts related to the UST AOC's. Based on the historical usage of the site, as multiple manufacturing and storage facilities, additional soil samples were collected to assist characterizing sub surface soils. A total of seven soil samples were collected. Soil classifications were similar at all boring locations. The characterization of the soils encountered were classified as non native fill materials from 0-1.5 ft, native light brown, slightly moist clay/sand from 1.5- 4ft, native light brown coarse sand from 4- 9ft. native light brown clay moist from 9-11ft and native reddish brown sandstone to 12 ft. Boring Logs have been provided as an attachment. A hydropunch boring was also advanced to 44 feet below grade in an effort to collect a groundwater sample. The boring consisted of a continuous direct push hollow stem drive point therefore no lithology information was obtained. A ground water sample could not be obtained at this depth.

OIL UST

The UST were located beneath the concrete floor slab therefore no indication of the tank condition could be ascertained. Two borings were advanced at the ends of the tank to 12 feet below grade. The borings were screened at one foot intervals with a PID (Photo Ionization Detector). No staining or elevated PID readings were noted. Based on the UST being located approximately 2 ft below grade and approximately 7ft in diameter the soil samples were collected below the invert of the UST at 10.5-11 ft below grade. These two samples (S1 and S2) were submitted for VOC and SVOC analysis.

The results of the analysis for samples S1 and S2 collected in this location suggest that no release has occurred.

TERMS recommends that the UST be properly removed/closed. Post Excavation and piping samples will be collected and analyzed to confirm these findings.

GASOLINE UST

The UST were located beneath the concrete floor slab therefore no indication of the tank condition could be ascertained. Two borings were advanced at the ends of the tank to 12 feet below grade. The borings were screened at one foot intervals with a PID (Photo Ionization Detector). No staining or elevated PID readings were noted. Based on the UST being located approximately 3.5 ft below grade and approximately 4 ft in diameter the soil samples were collected below the invert of the UST at 9-9.5 ft below grade. These two samples (S3 and S4) were submitted for VOC and SVOC analysis.

The results of the analysis for samples S3 and S4 collected in this location suggest that no release has occurred.

TERMS recommends that the UST be properly removed/closed. Post Excavation and piping samples will be collected and analyzed to confirm these findings

DRAINS/PIT

A boring was advanced at the location of Drain 1 to 4 feet below grade. The borings were screened at one foot intervals with a PID (Photo Ionization Detector). As no elevated PID readings were noted, soil sample S5 was collected at 3.5-4 below grade and was submitted for SVOC and Metal analysis.

The results of the analysis for samples S5 collected in this location suggest that no release has occurred.

A boring was advanced at the location of the masonry pit to 4 feet below grade. The borings were screened at one foot intervals with a PID (Photo Ionization Detector). As no elevated PID readings were noted, soil sample S6 was collected at 3.5-4 below grade and were submitted for SVOC and Metal analysis.

The results of the analysis for sample S6 collected in this location suggest that no release has occurred.

A grab sample was collected at the base of the pit at the location of Drain 2B location. The soils were screened with a PID (Photo Ionization Detector). As no elevated PID readings were noted, the soil sample collected was submitted for SVOC and Metal analysis.

The results of the analysis for sample S7 collected in this location revealed slightly elevated levels for PAH and Metal compounds in excess of Residential Criteria, New York Restricted Use Soil Cleanup Objectives (SCOs). The visual observations of below slab fill materials for all the borings and the results of the analysis for sample S7 collected in this location suggest that historic fill may be present in the 0-1.5 ft below grade interval.

Additional Investigations

On April 8, 2015 TERMS and Team Drilling (Geoprobe) were on site to perform a sampling investigation performed per MOER requirements to assist in identifying potential site impacts. Subsequent Investigations included:

Soil Samples/Test borings

A total of ten (10) soil samples at specified locations and analyzed for VOC SVOC Pesticides PCB's and Metals. Requirements included sample collection depth intervals - 5 surface soil samples from the 0-2 feet bgs interval, 2 subsurface soil samples from the 2-4 foot bgs interval and 3 subsurface samples collected at the 10-12 feet bg

The stratigraphy of the Site, from surface down is approximately 6-inches of concrete, 12-inches of fill material, brown coarse sand, clay to a depth of approximately 14 feet where a approximately 2ft rock interval was encountered , and hard pack silt/till to terminal depth of 70 feet.

The analysis revealed only one slight exceedence for mercury at 0.22 mg/kg in excess of the unrestricted residential criteria of 0.18 mg/kg for soil sample (S5) at the 1-1.5 depth interval.

Groundwater/Monitoring Wells

Installation of three monitoring well at specified locations for groundwater sampling and analysis for VOC SVOC Pesticides PCB's and Metals.

Depth to groundwater is approximately 40 feet below ground surface at the Site. Groundwater flow is generally from the southwest to the northeast.

Groundwater sample results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater samples from the three monitoring wells contained relatively high concentrations of Tetrachloroethene (PCE), Trichloroethene (TCE), and total Chromium. Groundwater samples showed no pesticides, PCBs, or SVOCs at detectable concentrations. Elevated concentrations of several VOCs were detected above their GQSs, and of those, tetrachloroethene (PCE) was detected in all three groundwater samples at 6.8 µg/L, 150 µg/L and 210 µg/L. Trichloroethene (TCE) was detected in all three groundwater samples at 7.3 µg/L, 80 µg/L and 120 µg/L. cis-1,2-Dichloroethene was detected slightly above GQS in one sample at 6 µg/L. Several metals were identified in groundwater at concentrations exceeding their GQSs and included chromium (max. of 106.6 µg/L), iron (max. of 103,000 µg/L), lead (max. of 73.3 µg/L), magnesium (max. of 42,500 µg/L), manganese (max. of 6,498 µg/L), nickel (max. of 213.7 µg/L), sodium (max. of 33,800 µg/L), and thalium (0.07 µg/L) in one or more unfiltered samples. The groundwater samples were not analyzed for dissolved metals.

Soil Vapor Sampling

Three (3) soil vapor samples were collected at specified locations. Two were set at a depth of approximately five (5) feet and one of the soil vapor implants will be set at a depth of approximately ten (10) feet and analyzed for VOCs by using USEPA Method TO-15 and compared to the New York State Department of Health (NYSDOH) standards.

Numerous VOCs were detected including 1,3-Butadienen, Isopropanol, Tertiary butyl Alcohol (TBA), PCE, TCE, Toluene, and p/m-Xylene. Soil vapor samples showed high levels of petroleum-related VOCs and chlorinated VOCs. The maximum total concentration of petroleum-related VOCs (BTEX) was at 54 µg/m³. The chlorinated VOC, trichloroethylene (TCE) was detected in all three soil gas samples at elevated concentrations of 564 µg/m³, 1130 µg/m³ and 3760 µg/m³. Tetrachloroethylene (PCE) was also detected in all soil gas samples at elevated concentrations of 365 µg/m³, 685 µg/m³ and 2400 µg/m³. Concentrations of chlorinated PCE and TCE were above the mitigation level ranges established within the NYSDOH soil vapor guidance matrix.

MOER - Additional Investigation Requirements

Based on the above results, the MOER required the following tasks to be performed.

- Installation of one additional groundwater well at the northwest corner of the site. Please collect a groundwater sample at this location and analyze it for full parameters (VOCs, SVOCs, pesticides, PCBs, and total and dissolved metals).
- Collection of a groundwater sample at each of the three existing groundwater wells and analyze the samples for VOCs and dissolved metals.

- Collection of additional soil vapor samples at 10, 20, and 30 feet below grade at the four locations (SSA, SSB, SSC and SSD) shown on the attached map.
- Installation of one additional soil boring (SA) at the location shown on the attached map. Please screen the soils to groundwater with a PID. Please collect soil samples at all intervals with elevated PID readings. If there are no PID hits, please collect a shallow soil sample at this location and analyze it for VOCs.
- Also delineate copper soil contamination at this location adjacent to soil sample S7 (soil samples S1A- S5A).

The results of these additional tasks assisted in providing additional data for the site characterization.

The copper contaminated soil impact was minimal and estimated at approximately 10 tons to be remediated. The remaining site soils are not adversely impacted.

The CVOC concentration detected in Monitoring wells: MW- 2 PCE 200 ug/l, TCE 120 ug/l, cis-1,2-Dichloroethene 6 ug/l. MW-1 PCE 100 ug/l, TCE 63 ug/l. MW-3 PCE 63 ug/l, TCE 34 ug/l, MW-1 PCE 6.1 ug/l, TCE 6.8 ug/l.

In summary the soil vapor results again detected numerous VOCs. Concentrations of chlorinated PCE and TCE were above the mitigation level ranges established within the NYSDOH soil vapor guidance matrix.

An AOC/Sample Location & Site Figure, Results Table and Well Records/Boring Logs have been provided as attachments.

All work was performed in accordance with Draft DER-10 Technical Guidance for Site Investigation and Remediation (Dec 2002) All samples were collected in accordance with the NYDEC Guidelines and Protocols (March 1992). The soil samples were collected using properly decontaminated split spoons and dedicated stainless steel trowels in accordance with the NYDEC Bureau of Spill Prevention and Response Sampling Procedures. The samples were placed in a cooler with ice and delivered to Alpha Analytical for analysis. Alpha is certified by the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) as LABIDs 11148 and 11627.

If you have any question regarding this summary letter, feel free to contact us.

Sincerely,
TERMS Environmental Services, Inc

Pete Lakatos
Project Manager

ATTACHMENT 1

SOIL SAMPLE RESULTS

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE DEPTH (ft.)	CasNum	NY-CPS1	NY-RESR	NY-UNRE	Units	S1 12/5/2014 L1429366-01 10.5-11	S2 12/5/2014 L1429366-02 10.5-11	S3 12/5/2014 L1429366-03 9.9-5	S4 12/5/2014 L1429366-04 9.9-5	S5 12/5/2014 L1429366-05 3.5-4	S6 12/5/2014 L1429366-06 3.5-4	S7 12/5/2014 L1429366-07 0.5-1.5	S7 12/5/2014 L1429366-07 RI	Qual
General Chemistry - Westborough Lab					%									
Solids, Total	NONE					93.3	82.2	82.3	68.9	87.2	92.4	33.9		
Semivolatile Organics by GC/MS - Westborough Lab														
Acenaphthene	83-32-9	20	100		mg/kg	0.14	0.16	0.16	0.19	0.15	0.14	0.39		U
1,2,4-Trichlorobenzene	120-82-1				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Hexachlorobenzene	118-74-1	0.41			0.33 mg/kg	0.1	0.12	0.12	0.14	0.11	0.11	0.29		U
Bis(2-chloroethyl)ether	111-44-4				mg/kg	0.16	0.18	0.18	0.22	0.17	0.16	0.44		U
2-Chloronaphthalene	91-58-7				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
1,2-Dichlorobenzene	95-50-1	100			1.1 mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
1,3-Dichlorobenzene	541-73-1	17			2.4 mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
1,4-Dichlorobenzene	106-46-7	9.8			1.8 mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
3,3'-Dichlorobenzidine	91-94-1				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
2,4-Dinitrotoluene	121-14-2				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
2,6-Dinitrotoluene	206-20-2				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Fluoranthene	206-44-0	100			100 mg/kg	0.1	0.12	0.12	0.14	0.11	0.17	1.4		U
4-Chlorophenyl phenyl ether	7005-72-3				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
4-Bromophenyl phenyl ether	101-55-3				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Bis(2-chloroisopropyl)ether	108-60-1				mg/kg	0.21	0.24	0.24	0.29	0.22	0.21	0.59		U
Bis(2-chloroethoxy)methane	111-91-1				mg/kg	0.19	0.21	0.22	0.26	0.2	0.19	0.53		U
Hexachlorobutadiene	87-68-3				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Hexachlorocyclopentadiene	77-47-4				mg/kg	0.5	0.56	0.57	0.69	0.53	0.51	1.4		U
Hexachloroethane	67-72-1				mg/kg	0.14	0.16	0.16	0.19	0.15	0.14	0.39		U
Isophorone	78-59-1	100			mg/kg	0.16	0.18	0.18	0.22	0.17	0.16	0.44		U
Naphthalene	91-20-3	12			12 mg/kg	0.16	0.2	0.2	0.24	0.18	0.18	0.44		U
Nitrobenzene	98-95-3				mg/kg	0.16	0.18	0.18	0.22	0.17	0.16	0.44		U
Nitrosodiphenylamine(NDPA)/DF	66-30-6				mg/kg	0.14	0.16	0.16	0.19	0.15	0.14	0.39		U
n-Nitrosod-n-propylamine	621-54-7				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Bis(2-Ethylhexyl)phthalate	117-81-7	50			mg/kg	0.17	0.2	0.2	0.24	0.18	0.089	61	110	E
Butyl benzyl phthalate	85-68-7	100			mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Di-n-butylphthalate	84-74-2	100			mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.95		U
Di-n-octylphthalate	117-84-0	100			mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Diethyl phthalate	84-66-2	100			mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Dimethyl phthalate	131-11-3	100			mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Benzo(a)anthracene	56-55-3	1			1 mg/kg	0.1	0.12	0.12	0.14	0.11	0.081	0.94		J
Benzo(a)pyrene	50-32-8	1			1 mg/kg	0.14	0.16	0.16	0.19	0.15	0.097	0.93		J
Benzo(b)fluoranthene	205-99-2	1			1 mg/kg	0.1	0.12	0.12	0.14	0.11	0.1	1.3		J
Benzo(k)fluoranthene	207-08-9	0.8			0.8 mg/kg	0.1	0.12	0.12	0.14	0.11	0.11	0.49		J
Chrysene	218-01-9	1			1 mg/kg	0.1	0.12	0.12	0.14	0.11	0.075	0.87		J
Acenaphthylene	208-96-8	100			100 mg/kg	0.14	0.16	0.16	0.19	0.15	0.14	0.13		J
Anthracene	120-12-7	100			100 mg/kg	0.1	0.12	0.12	0.14	0.11	0.11	0.24		J
Benzo(ghi)perylene	191-24-2	100			100 mg/kg	0.14	0.16	0.16	0.19	0.15	0.074	0.91		J
Fluorene	86-73-7	30			30 mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Phenanthrene	85-01-8	100			100 mg/kg	0.1	0.12	0.12	0.14	0.11	0.11	0.63		U
Dibenzo(a,h)anthracene	53-70-3	0.33			0.33 mg/kg	0.1	0.12	0.12	0.14	0.11	0.11	0.29		U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.5			0.5 mg/kg	0.14	0.16	0.16	0.19	0.15	0.12	1.1		J
Pyrene	129-00-0	100			100 mg/kg	0.1	0.12	0.12	0.14	0.11	0.16	1.3		J
Biphenyl	92-52-4				mg/kg	0.4	0.45	0.46	0.55	0.42	0.4	1.1		U
4-Chloroaniline	106-47-8	100			mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
2-Nitroaniline	88-74-4				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
3-Nitroaniline	99-08-2				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
4-Nitroaniline	100-01-6				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Dibenzofuran	132-64-9	14			7 mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
2-Methylnaphthalene	91-57-5	0.41			mg/kg	0.21	0.24	0.24	0.29	0.22	0.21	0.59		U
1,2,4,5-Tetrachlorobenzene	95-94-3				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.49		U
Acetophenone	98-86-2				mg/kg	0.17	0.2	0.2	0.24	0.18	0.18	0.59		U

Sample ID	Chemical Name	mg/kg	0.17	U	0.2	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U	0.49	U
100-51-6	Benzyl Alcohol		0.17	U	0.2	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U	0.49	U
86-74-8	Carbazole		0.17	U	0.2	U	0.2	U	0.2	U	0.24	U	0.18	U	0.18	U	0.49	U	0.49	U
7429-90-5	Total Metals - Westborough Lab																			
7440-36-0	Aluminum, Total																			
7440-38-2	Antimony, Total																			
7440-39-3	Arsenic, Total	16																		
7440-41-7	Berium, Total	350																		
7440-43-9	Beryllium, Total	14																		
7440-70-2	Cadmium, Total	2.5																		
7440-47-3	Calcium, Total																			
7440-48-4	Chromium, Total																			
7440-50-8	Cobalt, Total	30																		
7439-89-6	Copper, Total	270																		
7439-92-1	Iron, Total	2000																		
7439-95-4	Lead, Total	400																		
7439-96-5	Magnesium, Total																			
7439-97-5	Manganese, Total	2000																		
7440-02-0	Mercury, Total	0.81																		
7440-09-7	Nickel, Total	140																		
7782-49-2	Potassium, Total																			
7440-22-4	Selenium, Total	36																		
7440-23-5	Silver, Total	36																		
7440-28-0	Sodium, Total																			
7440-62-2	Thallium, Total																			
7440-66-6	Vanadium, Total	100																		
	Zinc, Total	2200																		
Volatiles Organics by 8260/5035 - Westborough Lab																				
75-09-2	Methylene chloride	51	0.011	U	0.011	U	0.011	U	0.011	U	0.018	U	0.018	U	0.018	U				
75-34-3	1,1-Dichloroethane	19	0.017	U	0.016	U	0.016	U	0.016	U	0.026	U	0.026	U	0.026	U				
67-66-3	Chloroform	10	0.017	U	0.016	U	0.016	U	0.016	U	0.026	U	0.026	U	0.026	U				
56-23-5	Carbon tetrachloride	1.4	0.011	U	0.011	U	0.011	U	0.011	U	0.018	U	0.018	U	0.018	U				
78-87-5	1,2-Dichloropropane		0.0039	U	0.0038	U	0.0038	U	0.0038	U	0.0062	U	0.0062	U	0.0062	U				
124-48-1	Dibromochloromethane		0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0018	U	0.0018	U	0.0018	U				
79-00-5	1,1,2-Trichloroethane		0.0017	U	0.0016	U	0.0016	U	0.0016	U	0.0026	U	0.0026	U	0.0026	U				
127-18-4	Tetrachloroethane	5.5	0.02	U	0.0036	J	0.0036	J	0.0036	J	0.0068	J	0.0068	J	0.0068	J				
108-90-7	Chlorobenzene	100	0.011	U	0.011	U	0.011	U	0.011	U	0.018	U	0.018	U	0.018	U				
75-69-4	Trichlorofluoromethane		0.0056	U	0.0054	U	0.0054	U	0.0054	U	0.0068	U	0.0068	U	0.0068	U				
107-06-2	1,2-Dichloroethane	2.3	0.011	U	0.011	U	0.011	U	0.011	U	0.018	U	0.018	U	0.018	U				
71-55-6	1,1,1-Trichloroethane	100	0.011	U	0.011	U	0.011	U	0.011	U	0.018	U	0.018	U	0.018	U				
75-27-4	Bromodichloromethane		0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0018	U	0.0018	U	0.0018	U				
10061-02-6	trans-1,3-Dichloropropene		0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0018	U	0.0018	U	0.0018	U				
10061-01-5	cis-1,3-Dichloropropene		0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0018	U	0.0018	U	0.0018	U				
542-75-6	1,3-Dichloropropene, Total		0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0018	U	0.0018	U	0.0018	U				
563-58-6	1,1-Dichloropropene		0.0056	U	0.0054	U	0.0054	U	0.0054	U	0.0068	U	0.0068	U	0.0068	U				
75-25-2	Bromoform		0.0045	U	0.0043	U	0.0043	U	0.0043	U	0.0071	U	0.0071	U	0.0071	U				
79-34-5	1,1,2,2-Tetrachloroethane	35	0.011	U	0.011	U	0.011	U	0.011	U	0.018	U	0.018	U	0.018	U				
71-43-2	Benzene	0.06	0.011	U	0.011	U	0.011	U	0.011	U	0.018	U	0.018	U	0.018	U				
108-88-3	Toluene	0.7	0.017	U	0.016	U	0.016	U	0.016	U	0.026	U	0.026	U	0.026	U				
100-41-4	Ethylbenzene	1	0.011	U	0.011	U	0.011	U	0.011	U	0.018	U	0.018	U	0.018	U				
74-87-3	Chloromethane	30	0.056	U	0.054	U	0.054	U	0.054	U	0.068	U	0.068	U	0.068	U				
74-83-9	Bromomethane		0.0022	U	0.0022	U	0.0022	U	0.0022	U	0.0035	U	0.0035	U	0.0035	U				
75-01-4	Vinyl chloride	0.21	0.022	U	0.022	U	0.022	U	0.022	U	0.035	U	0.035	U	0.035	U				
75-00-3	Chloroethane		0.0022	U	0.0022	U	0.0022	U	0.0022	U	0.0035	U	0.0035	U	0.0035	U				
75-35-4	1,1-Dichloroethane		0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0018	U	0.0018	U	0.0018	U				
156-60-5	trans-1,2-Dichloroethane		0.0017	U	0.0016	U	0.0016	U	0.0016	U	0.0026	U	0.0026	U	0.0026	U				
79-01-6	Trichloroethene	10	0.0082	U	0.0082	U	0.0082	U	0.0082	U	0.01	J	0.01	J	0.01	J				
95-50-1	1,2-Dichlorobenzene	100	0.056	U	0.054	U	0.054	U	0.054	U	0.068	U	0.068	U	0.068	U				
541-73-1	1,3-Dichlorobenzene	17	0.056	U	0.054	U	0.054	U	0.054	U	0.068	U	0.068	U	0.068	U				
106-46-7	1,4-Dichlorobenzene	9.8	0.056	U	0.054	U	0.054	U	0.054	U	0.068	U	0.068	U	0.068	U				
1634-04-4	Methyl tert butyl ether	62	0.022	U	0.022	U	0.022	U	0.022	U	0.035	U	0.035	U	0.035	U				
179601-23-1	pim-Xylene	0.93	0.022	U	0.022	U	0.022	U	0.022	U	0.035	U	0.035	U	0.035	U				
95-47-6	o-Xylene	0.26	0.022	U	0.022	U	0.022	U	0.022	U	0.035	U	0.035	U	0.035	U				

1330-20-7	Xylene (Total)	0.26	100	0.26 mg/kg	0.0022	U	0.0022	U	0.0022	U	0.0026	U	0.0035	U
156-59-2	cis-1,2-Dichloroethene		59	0.25 mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0018	U
540-59-0	1,2-Dichloroethene (total)			mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0018	U
74-95-3	Dibromomethane			mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
100-42-5	Styrene			mg/kg	0.0022	U	0.0022	U	0.0022	U	0.0026	U	0.0035	U
75-71-8	Dichlorodifluoromethane			mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
67-64-1	Acetone		100	0.05 mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
75-15-0	Carbon disulfide		100	mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
78-93-3	2-Butanone		100	0.12 mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
108-05-4	Vinyl acetate			mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
108-10-1	4-Methyl-2-pentanone			mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
96-18-4	1,2,3-Trichloropropane		80	mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
591-78-6	2-Hexanone			mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
74-97-5	Bromochloromethane			mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
594-20-7	2,2-Dichloropropane			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
106-93-4	1,2-Dibromoethane			mg/kg	0.0045	U	0.0043	U	0.0043	U	0.0052	U	0.0071	U
142-28-9	1,3-Dichloropropane			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
630-20-6	1,1,1,2-Tetrachloroethane			mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0018	U
108-86-1	Bromobenzene			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
104-51-8	n-Butylbenzene	12	100	12 mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0018	U
135-98-8	sec-Butylbenzene	11	100	11 mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0018	U
98-06-6	tert-Butylbenzene	5.9	100	5.9 mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
95-49-8	o-Chlorotoluene			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
106-43-4	p-Chlorotoluene			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
96-12-8	1,2-Dibromo-3-chloropropane			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
87-68-3	Hexachlorobutadiene			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
98-82-8	Isopropylbenzene	2.3	100	mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0018	U
99-87-6	p-Isopropyltoluene	10		mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0018	U
91-20-3	Naphthalene	12	100	12 mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
107-13-1	Acrylonitrile			mg/kg	0.011	U	0.011	U	0.011	U	0.013	U	0.018	U
103-65-1	n-Propylbenzene	3.9	100	3.9 mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0018	U
87-61-6	1,2,3-Trichlorobenzene			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
120-82-1	1,2,4-Trichlorobenzene			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
108-67-8	1,3,5-Trimethylbenzene	8.4	47	8.4 mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
95-63-6	1,2,4-Trimethylbenzene	3.6	47	3.6 mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
123-91-1	1,4-Dioxane		9.8	0.1 mg/kg	0.11	U	0.11	U	0.11	U	0.13	U	0.18	U
105-05-5	1,4-Diethylbenzene			mg/kg	0.0045	U	0.0043	U	0.0043	U	0.0052	U	0.0071	U
622-96-8	4-Ethyltoluene			mg/kg	0.0045	U	0.0043	U	0.0043	U	0.0052	U	0.0071	U
95-93-2	1,2,4,5-Tetramethylbenzene			mg/kg	0.0045	U	0.0043	U	0.0043	U	0.0052	U	0.0071	U
60-29-7	Ethyl ether			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U
110-57-6	trans-1,4-Dichloro-2-butene			mg/kg	0.0056	U	0.0054	U	0.0054	U	0.0065	U	0.0088	U

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE DEPTH (ft.)	NY-UNRE Units	S1 4/8/2015 L1507133-01	S2 4/8/2015 L1507133-02	S3 4/8/2015 L1507133-03	S4 4/8/2015 L1507133-04	S5 4/8/2015 L1507133-05	S6 4/8/2015 L1507133-06	S7 4/8/2015 L1507133-07	S8 4/8/2015 L1507133-08	S9 4/8/2015 L1507133-09	S10 4/8/2015 L1507133-10
General Chemistry - Westborough Lab	%	86	85.8	85	89.8	80.8	73	86	80	88.2	92.9
Solids, Total											
Organochlorine Pesticides by GC - Westborough Lab											
Delta-BHC	0.04 mg/kg	0.00183	0.00175	0.00182	0.00173	0.00186	0.00213	0.00177	0.00198	0.00177	0.00166
Lindane	0.1 mg/kg	0.000763	0.00072	0.00076	0.00072	0.00078	0.00089	0.00074	0.00082	0.00074	0.00069
Alpha-BHC	0.02 mg/kg	0.00073	0.00073	0.00076	0.00072	0.00078	0.00089	0.00074	0.00082	0.00074	0.00069
Beta-BHC	0.036 mg/kg	0.00183	0.00175	0.00182	0.00173	0.00186	0.00213	0.00177	0.00198	0.00177	0.00166
Heptachlor	0.042 mg/kg	0.000916	0.00088	0.00091	0.00087	0.00093	0.00107	0.00088	0.00099	0.00088	0.00083
Aldrin	0.005 mg/kg	0.00183	0.00175	0.00182	0.00173	0.00186	0.00213	0.00177	0.00198	0.00177	0.00166
Heptachlor epoxide	0.033 mg/kg	0.00183	0.00175	0.00182	0.00173	0.00186	0.00213	0.00177	0.00198	0.00177	0.00166
Endrin	0.014 mg/kg	0.000763	0.00073	0.00076	0.00072	0.00078	0.00089	0.00074	0.00082	0.00074	0.00069
Endrin ketone	0.005 mg/kg	0.00114	0.00109	0.00114	0.00108	0.00116	0.00133	0.0011	0.00124	0.0011	0.00104
4,4'-DDE	0.0033 mg/kg	0.00183	0.00175	0.00182	0.00173	0.00186	0.00213	0.00177	0.00198	0.00177	0.00166
4,4'-DDD	0.0033 mg/kg	0.00183	0.00175	0.00182	0.00173	0.00186	0.00213	0.00177	0.00198	0.00177	0.00166
4,4'-DDT	0.0033 mg/kg	0.00343	0.00328	0.00342	0.00324	0.0035	0.004	0.00331	0.00371	0.00332	0.00311
Endosulfan I	2.4 mg/kg	0.00183	0.00175	0.00182	0.00173	0.00186	0.00213	0.00177	0.00198	0.00177	0.00166
Endosulfan II	2.4 mg/kg	0.00183	0.00175	0.00182	0.00173	0.00186	0.00213	0.00177	0.00198	0.00177	0.00166
Endosulfan sulfate	2.4 mg/kg	0.000763	0.00073	0.00076	0.00072	0.00078	0.00089	0.00074	0.00082	0.00074	0.00069
Methoxychlor	0.0343 mg/kg	0.00343	0.00328	0.00342	0.00324	0.0035	0.004	0.00331	0.00371	0.00332	0.00311
Toxaphene	0.094 mg/kg	0.00229	0.00219	0.00228	0.00216	0.00233	0.00267	0.00221	0.00247	0.00221	0.00207
cis-Chlordane	5103-71-9	0.00229	0.00219	0.00228	0.00216	0.00233	0.00267	0.00221	0.00247	0.00221	0.00207
trans-Chlordane	5103-74-2	0.00229	0.00219	0.00228	0.00216	0.00233	0.00267	0.00221	0.00247	0.00221	0.00207
Chlordane	57-74-9	0.0149	0.0142	0.0148	0.0141	0.0151	0.0173	0.0144	0.0161	0.0144	0.0135
Polychlorinated Biphenyls by GC - Westborough Lab											
Aroclor 1016	0.1 mg/kg	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
Aroclor 1221	11104-28-2	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
Aroclor 1232	11141-18-5	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
Aroclor 1242	53469-21-9	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
Aroclor 1248	12672-29-6	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
Aroclor 1254	11087-69-1	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
Aroclor 1260	11086-82-5	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
Aroclor 1262	37324-23-5	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
Aroclor 1268	11100-14-4	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
PCBs, Total	1336-36-3	0.0373	0.0362	0.0374	0.0354	0.0406	0.0443	0.0373	0.0406	0.037	0.0352
Semivolatile Organics by GC/MS - Westborough Lab											
Acenaphthene	85-32-9	0.15	0.15	0.16	0.14	0.16	0.18	0.15	0.16	0.15	0.14
1,2,4-Trichlorobenzene	120-82-1	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
Hexachlorobenzene	118-74-1	0.11	0.11	0.12	0.11	0.12	0.13	0.11	0.12	0.11	0.11
Bis(2-chloroethyl)ether	111-44-4	0.17	0.17	0.18	0.16	0.18	0.2	0.17	0.18	0.17	0.16
2-Chloronaphthalene	91-58-7	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
1,2-Dichlorobenzene	95-50-1	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
1,3-Dichlorobenzene	54-173-1	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
1,4-Dichlorobenzene	106-46-7	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
3,3'-Dichlorobenzidine	91-94-1	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
2,4-Dinitrotoluene	121-14-2	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
2,6-Dinitrotoluene	606-20-2	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
Fluoranthene	206-44-0	0.11	0.11	0.039	0.11	0.2	0.22	0.19	0.2	0.19	0.18
4-Chlorophenyl phenyl ether	7005-72-3	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
4-Bromophenyl phenyl ether	101-55-3	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
Bis(2-chloroisopropyl)ether	39838-32-9	0.23	0.23	0.23	0.22	0.24	0.27	0.23	0.24	0.23	0.21
Bis(2-chloroethoxy)methane	111-91-1	0.2	0.21	0.21	0.2	0.22	0.24	0.2	0.22	0.2	0.19
Hexachlorobutadiene	87-58-3	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
Hexachlorocyclopentadiene	77-47-4	0.54	0.55	0.56	0.52	0.57	0.64	0.55	0.59	0.53	0.51
Hexachloroethane	67-72-1	0.15	0.15	0.16	0.14	0.16	0.18	0.15	0.16	0.15	0.14
Isophorone	78-59-1	0.17	0.17	0.18	0.16	0.18	0.2	0.17	0.18	0.17	0.16
Naphthalene	91-20-3	0.19	0.19	0.19	0.18	0.2	0.22	0.19	0.2	0.19	0.18
Nitrobenzene	98-95-3	0.17	0.17	0.18	0.16	0.18	0.2	0.17	0.18	0.17	0.16
NitrosoDiPhenylAmine (NDPA)/DF	86-30-6	0.15	0.15	0.16	0.14	0.16	0.18	0.15	0.16	0.15	0.14

Compound	mg/kg	19	22	27	21	26	16	23	22	62	15	17	29	24	14	27	9.8	14
Vanadium, Total																		
Zinc, Total	109	22	27	21	26	16	23	22	62	15	17	29	24	14	27	9.8	14	
Volatile Organics by 8260/5035 - Westborough Lab																		
Methylene chloride	0.05	0.01	0.013	0.011	0.011	0.012	0.012	0.015	0.023	0.014	0.014	0.014	0.014	0.014	0.0099	0.012		
1,1-Dichloroethane	0.27	0.016	0.002	0.0017	0.0017	0.0018	0.0018	0.0023	0.0039	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
Carbon tetrachloride	0.37	0.016	0.002	0.0017	0.0017	0.0018	0.0018	0.0023	0.0039	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
1,2-Dichloropropane	0.76	0.037	0.0046	0.0039	0.0039	0.0042	0.0042	0.0053	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Dibromochloromethane		0.001	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,1,2-Trichloroethane		0.0016	0.002	0.0017	0.0017	0.0018	0.0018	0.0023	0.0039	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
Tetrachloroethene	1.3	0.046	0.0024	0.0023	0.0023	0.0023	0.0023	0.0039	0.0053	0.11	0.11	0.11	0.11	0.0099	0.015	0.018		
Chlorobenzene	1.1	0.001	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Trichlorofluoromethane	75-69-4	0.0053	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,2-Dichloroethane	107-06-2	0.02	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,1,1-Trichloroethane	71-55-6	0.68	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Bromodichloromethane	75-27-4	0.001	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
trans-1,3-Dichloropropene	10061-02-6	0.001	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
cis-1,3-Dichloropropene	10061-01-5	0.001	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,3-Dichloropropane, Total	542-75-6	0.001	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,1-Dichloropropene	563-58-6	0.0053	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Bromoform	75-25-2	0.042	0.0053	0.0044	0.0044	0.0048	0.0048	0.0053	0.0066	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,1,2,2-Tetrachloroethane	79-34-5	0.001	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Benzene	71-43-2	0.06	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Toluene	108-88-3	0.7	0.002	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
Ethylbenzene	100-41-4	1	0.002	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
Chloromethane	74-87-3	0.0053	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Bromomethane	74-83-9	0.0021	0.0026	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
Vinyl chloride	75-01-4	0.02	0.0026	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
Chloroethane	75-00-3	0.0021	0.0026	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
1,1-Dichloroethene	75-35-4	0.001	0.0026	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
trans-1,2-Dichloroethene	156-60-5	0.19	0.002	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
Trichloroethene	79-01-6	0.47	0.0023	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
1,2-Dichlorobenzene	95-50-1	1.1	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,3-Dichlorobenzene	541-73-1	2.4	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,4-Dichlorobenzene	105-46-7	1.8	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Methyl tert butyl ether	1634-04-4	0.93	0.0021	0.0026	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
p/m-Xylene	179601-23-1	0.021	0.0026	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
o-Xylene	95-47-6	0.021	0.0026	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
Xylenes, Total	1330-20-7	0.26	0.0026	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
cis-1,2-Dichloroethene	156-59-2	0.001	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,2-Dichloroethene, Total	540-59-0	0.25	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Dibromomethane	74-95-3	0.01	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Styrene	100-42-5	0.0021	0.0026	0.0022	0.0022	0.0022	0.0022	0.0026	0.003	0.022	0.022	0.021	0.021	0.0099	0.015	0.018		
Dichlorodifluoromethane	75-71-8	0.01	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Acetone	67-64-1	0.05	0.0043	0.0036	0.0036	0.0036	0.0036	0.0043	0.0054	0.004	0.004	0.004	0.004	0.0099	0.015	0.018		
Carbon disulfide	75-15-0	0.01	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
2-Butanone	78-93-3	0.12	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Vinyl acetate	108-05-4	0.01	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
4-Methyl-2-pentanone	108-10-1	0.01	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,2,3-Trichloropropane	96-18-4	0.01	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
2-Hexanone	591-78-6	0.01	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Bromochloromethane	74-97-5	0.0053	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
2,2-Dichloropropane	594-20-7	0.0053	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,2-Dibromoethane	106-93-4	0.0042	0.0053	0.0044	0.0044	0.0048	0.0048	0.0053	0.0066	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,3-Dichloropropane	142-28-9	0.0053	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
1,1,1,2-Tetrachloroethane	630-20-6	0.001	0.0013	0.0011	0.0011	0.0011	0.0011	0.0015	0.0023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
Bromobenzene	106-86-1	0.0063	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
n-Butylbenzene	104-51-8	12	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
sec-Butylbenzene	135-98-8	11	0.013	0.011	0.011	0.011	0.011	0.015	0.023	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
tert-Butylbenzene	98-06-6	5.9	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0076	0.014	0.014	0.014	0.014	0.0099	0.015	0.018		
o-Chlorotoluene	95-49-8	0.0053	0.0066	0.0055	0.0055	0.0056	0.0056	0.0066	0.0									

LOCATION
 SAMPLING DATE
 LAB SAMPLE ID
 SAMPLE TYPE
 SAMPLE DEPTH (ft.)

SA
 5/29/2015
 L1511911-01

	CasNum	NY-UNRE Units		Qual
General Chemistry - Westborough Lab				
Solids, Total	NONE	%	80.7	
Volatile Organics by 8260/5035 - Westborough Lab				
Methylene chloride	75-09-2	0.05 mg/kg	0.012	U
1,1-Dichloroethane	75-34-3	0.27 mg/kg	0.0018	U
Chloroform	67-66-3	0.37 mg/kg	0.0018	U
Carbon tetrachloride	56-23-5	0.76 mg/kg	0.0012	U
1,2-Dichloropropane	78-87-5	mg/kg	0.0043	U
Dibromochloromethane	124-48-1	mg/kg	0.0012	U
1,1,2-Trichloroethane	79-00-5	mg/kg	0.0018	U
Tetrachloroethene	127-18-4	1.3 mg/kg	0.0055	
Chlorobenzene	108-90-7	1.1 mg/kg	0.0012	U
Trichlorofluoromethane	75-69-4	mg/kg	0.0062	U
1,2-Dichloroethane	107-06-2	0.02 mg/kg	0.0012	U
1,1,1-Trichloroethane	71-55-6	0.68 mg/kg	0.0012	U
Bromodichloromethane	75-27-4	mg/kg	0.0012	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.0012	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.0012	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	0.0012	U
1,1-Dichloropropene	563-58-6	mg/kg	0.0062	U
Bromoform	75-25-2	mg/kg	0.005	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.0012	U
Benzene	71-43-2	0.06 mg/kg	0.0012	U
Toluene	108-88-3	0.7 mg/kg	0.0018	U
Ethylbenzene	100-41-4	1 mg/kg	0.0012	U
Chloromethane	74-87-3	mg/kg	0.0062	U
Bromomethane	74-83-9	mg/kg	0.0025	U
Vinyl chloride	75-01-4	0.02 mg/kg	0.0025	U
Chloroethane	75-00-3	mg/kg	0.0025	U
1,1-Dichloroethene	75-35-4	0.33 mg/kg	0.0012	U
trans-1,2-Dichloroethene	156-60-5	0.19 mg/kg	0.0018	U
Trichloroethene	79-01-6	0.47 mg/kg	0.0091	
1,2-Dichlorobenzene	95-50-1	1.1 mg/kg	0.0062	U
1,3-Dichlorobenzene	541-73-1	2.4 mg/kg	0.0062	U
1,4-Dichlorobenzene	106-46-7	1.8 mg/kg	0.0062	U
Methyl tert butyl ether	1634-04-4	0.93 mg/kg	0.0025	U
p/m-Xylene	179601-23-1	mg/kg	0.0025	U
o-Xylene	95-47-6	mg/kg	0.0025	U
Xylenes, Total	1330-20-7	0.26 mg/kg	0.0025	U
cis-1,2-Dichloroethene	156-59-2	0.25 mg/kg	0.0012	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	0.0012	U
Dibromomethane	74-95-3	mg/kg	0.012	U
Styrene	100-42-5	mg/kg	0.0025	U
Dichlorodifluoromethane	75-71-8	mg/kg	0.012	U
Acetone	67-64-1	0.05 mg/kg	0.012	U
Carbon disulfide	75-15-0	mg/kg	0.012	U
2-Butanone	78-93-3	0.12 mg/kg	0.012	U
Vinyl acetate	108-05-4	mg/kg	0.012	U
4-Methyl-2-pentanone	108-10-1	mg/kg	0.012	U
1,2,3-Trichloropropane	96-18-4	mg/kg	0.012	U
2-Hexanone	591-78-6	mg/kg	0.012	U
Bromochloromethane	74-97-5	mg/kg	0.0062	U
2,2-Dichloropropane	594-20-7	mg/kg	0.0062	U
1,2-Dibromoethane	106-93-4	mg/kg	0.005	U
1,3-Dichloropropane	142-28-9	mg/kg	0.0062	U
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.0012	U
Bromobenzene	108-86-1	mg/kg	0.0062	U
n-Butylbenzene	104-51-8	12 mg/kg	0.0012	U
sec-Butylbenzene	135-98-8	11 mg/kg	0.0012	U
tert-Butylbenzene	98-06-6	5.9 mg/kg	0.0062	U
o-Chlorotoluene	95-49-8	mg/kg	0.0062	U
p-Chlorotoluene	106-43-4	mg/kg	0.0062	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.0062	U
Hexachlorobutadiene	87-68-3	mg/kg	0.0062	U
Isopropylbenzene	98-82-8	mg/kg	0.0012	U
p-Isopropyltoluene	99-87-6	mg/kg	0.0012	U
Naphthalene	91-20-3	12 mg/kg	0.0062	U
Acrylonitrile	107-13-1	mg/kg	0.012	U
n-Propylbenzene	103-65-1	3.9 mg/kg	0.0012	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	0.0062	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.0062	U
1,3,5-Trimethylbenzene	108-67-8	8.4 mg/kg	0.0062	U
1,2,4-Trimethylbenzene	95-63-6	3.6 mg/kg	0.0062	U
1,4-Dioxane	123-91-1	0.1 mg/kg	0.12	U
p-Diethylbenzene	105-05-5	mg/kg	0.005	U
p-Ethyltoluene	622-96-8	mg/kg	0.005	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	0.005	U
Ethyl ether	60-29-7	mg/kg	0.0062	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	0.0062	U

LOCATION	S1A	S2A	S3A	S4A	SSA
SAMPLING DATE	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015
LAB SAMPLE ID	L1516304-01	L1516304-02	L1516304-03	L1516304-04	L1516304-05
SAMPLE TYPE					
SAMPLE DEPTH (ft.)					
General Chemistry - Westborough Lab					
Solids, Total	93.6	90.4	92.1	93.2	90.2
Total Metals - Westborough Lab					
Copper, Total	8.3	11	7.5	8.2	8.3

NY-UNRE Units

CasNum

NONE

7440-50-8

%

50 mg/kg

Qual

ATTACHMENT 2

GROUNDWATER SAMPLE RESULTS

LOCATION			MW-1	MW-2	MW-3	
SAMPLING DATE			4/8/2015	4/8/2015	4/8/2015	
LAB SAMPLE ID			L1507070-01	L1507070-02	L1507070-03	L1507070-04
	CasNum	NY-AWQS Units		Qual	Qual	Qual
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	319-86-8	0.04 ug/l	0.02	U	-	-
Lindane	58-89-9	0.05 ug/l	0.02	U	-	-
Alpha-BHC	319-84-6	0.01 ug/l	0.02	U	-	-
Beta-BHC	319-85-7	0.04 ug/l	0.02	U	-	-
Heptachlor	76-44-8	0.04 ug/l	0.02	U	-	-
Aldrin	309-00-2	0 ug/l	0.02	U	-	-
Heptachlor epoxide	1024-57-3	0.03 ug/l	0.02	U	-	-
Endrin	72-20-8	0 ug/l	0.04	U	-	-
Endrin ketone	53494-70-5	5 ug/l	0.04	U	-	-
Dieldrin	60-57-1	0.004 ug/l	0.04	U	-	-
4,4'-DDE	72-55-9	0.2 ug/l	0.04	U	-	-
4,4'-DDD	72-54-8	0.3 ug/l	0.04	U	-	-
4,4'-DDT	50-29-3	0.2 ug/l	0.04	U	-	-
Endosulfan I	959-98-8	ug/l	0.02	U	-	-
Endosulfan II	33213-65-9	ug/l	0.04	U	-	-
Endosulfan sulfate	1031-07-8	ug/l	0.04	U	-	-
Methoxychlor	72-43-5	35 ug/l	0.2	U	-	-
Toxaphene	8001-35-2	0.06 ug/l	0.2	U	-	-
cis-Chlordane	5103-71-9	ug/l	0.02	U	-	-
trans-Chlordane	5103-74-2	ug/l	0.02	U	-	-
Chlordane	57-74-9	0.05 ug/l	0.2	U	-	-
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	12674-11-2	0.09 ug/l	0.083	U	-	-
Aroclor 1221	11104-28-2	0.09 ug/l	0.083	U	-	-
Aroclor 1232	11141-16-5	0.09 ug/l	0.083	U	-	-
Aroclor 1242	53469-21-9	0.09 ug/l	0.083	U	-	-
Aroclor 1248	12672-29-6	0.09 ug/l	0.083	U	-	-
Aroclor 1254	11097-69-1	0.09 ug/l	0.083	U	-	-
Aroclor 1260	11096-82-5	0.09 ug/l	0.083	U	-	-
Aroclor 1262	37324-23-5	0.09 ug/l	0.083	U	-	-
Aroclor 1268	11100-14-4	0.09 ug/l	0.083	U	-	-
PCBs, Total	1336-36-3	ug/l	0.083	U	-	-
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	120-82-1	5 ug/l	5	U	-	-
Bis(2-chloroethyl)ether	111-44-4	1 ug/l	2	U	-	-
1,2-Dichlorobenzene	95-50-1	3 ug/l	2	U	-	-
1,3-Dichlorobenzene	541-73-1	3 ug/l	2	U	-	-
1,4-Dichlorobenzene	106-46-7	3 ug/l	2	U	-	-
3,3'-Dichlorobenzidine	91-94-1	5 ug/l	5	U	-	-
2,4-Dinitrotoluene	121-14-2	5 ug/l	5	U	-	-
2,6-Dinitrotoluene	606-20-2	5 ug/l	5	U	-	-
4-Chlorophenyl phenyl ether	7005-72-3	ug/l	2	U	-	-
4-Bromophenyl phenyl ether	101-55-3	ug/l	2	U	-	-
Bis(2-chloroisopropyl)ether	39638-32-9	5 ug/l	2	U	-	-
Bis(2-chloroethoxy)methane	111-91-1	5 ug/l	5	U	-	-
Hexachlorocyclopentadiene	77-47-4	5 ug/l	20	U	-	-
Isophorone	78-59-1	50 ug/l	5	U	-	-
Nitrobenzene	98-95-3	0.4 ug/l	2	U	-	-
NitrosoDiPhenylAmine(NDPA)/DF	86-30-6	50 ug/l	2	U	-	-
n-Nitrosodi-n-propylamine	621-64-7	ug/l	5	U	-	-
Bis(2-Ethylhexyl)phthalate	117-81-7	5 ug/l	3	U	-	-
Butyl benzyl phthalate	85-68-7	50 ug/l	5	U	-	-
Di-n-butylphthalate	84-74-2	50 ug/l	5	U	-	-
Di-n-octylphthalate	117-84-0	50 ug/l	5	U	-	-
Diethyl phthalate	84-66-2	50 ug/l	5	U	-	-
Dimethyl phthalate	131-11-3	50 ug/l	5	U	-	-
Biphenyl	92-52-4	5 ug/l	2	U	-	-
4-Chloroaniline	106-47-8	5 ug/l	5	U	-	-

2-Nitroaniline	88-74-4	5 ug/l	5	U	-	-	-	-
3-Nitroaniline	99-09-2	5 ug/l	5	U	-	-	-	-
4-Nitroaniline	100-01-6	5 ug/l	5	U	-	-	-	-
Dibenzofuran	132-64-9	ug/l	2	U	-	-	-	-
1,2,4,5-Tetrachlorobenzene	95-94-3	5 ug/l	10	U	-	-	-	-
Acetophenone	98-86-2	ug/l	5	U	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	ug/l	5	U	-	-	-	-
P-Chloro-M-Cresol	59-50-7	ug/l	2	U	-	-	-	-
2-Chlorophenol	95-57-8	ug/l	2	U	-	-	-	-
2,4-Dichlorophenol	120-83-2	1 ug/l	5	U	-	-	-	-
2,4-Dimethylphenol	105-67-9	50 ug/l	5	U	-	-	-	-
2-Nitrophenol	88-75-5	ug/l	10	U	-	-	-	-
4-Nitrophenol	100-02-7	ug/l	10	U	-	-	-	-
2,4-Dinitrophenol	51-28-5	10 ug/l	20	U	-	-	-	-
4,6-Dinitro-o-cresol	534-52-1	ug/l	10	U	-	-	-	-
Phenol	108-95-2	1 ug/l	5	U	-	-	-	-
2-Methylphenol	95-48-7	ug/l	5	U	-	-	-	-
3-Methylphenol/4-Methylphenol	108-39-4	ug/l	5	U	-	-	-	-
2,4,5-Trichlorophenol	95-95-4	ug/l	5	U	-	-	-	-
Benzoic Acid	65-85-0	ug/l	50	U	-	-	-	-
Benzyl Alcohol	100-51-6	ug/l	2	U	-	-	-	-
Carbazole	86-74-8	ug/l	2	U	-	-	-	-
Semivolatile Organics by GC/MS-SIM - Westborough Lab								
Acenaphthene	83-32-9	20 ug/l	0.2	U	-	-	-	-
2-Chloronaphthalene	91-58-7	10 ug/l	0.2	U	-	-	-	-
Fluoranthene	206-44-0	50 ug/l	0.2	U	-	-	-	-
Hexachlorobutadiene	87-68-3	0.5 ug/l	0.5	U	-	-	-	-
Naphthalene	91-20-3	10 ug/l	0.2	U	-	-	-	-
Benzo(a)anthracene	56-55-3	0.002 ug/l	0.2	U	-	-	-	-
Benzo(a)pyrene	50-32-8	0 ug/l	0.2	U	-	-	-	-
Benzo(b)fluoranthene	205-99-2	0.002 ug/l	0.2	U	-	-	-	-
Benzo(k)fluoranthene	207-08-9	0.002 ug/l	0.2	U	-	-	-	-
Chrysene	218-01-9	0.002 ug/l	0.2	U	-	-	-	-
Acenaphthylene	208-96-8	ug/l	0.2	U	-	-	-	-
Anthracene	120-12-7	50 ug/l	0.2	U	-	-	-	-
Benzo(ghi)perylene	191-24-2	ug/l	0.2	U	-	-	-	-
Fluorene	86-73-7	50 ug/l	0.2	U	-	-	-	-
Phenanthrene	85-01-8	50 ug/l	0.2	U	-	-	-	-
Dibenzo(a,h)anthracene	53-70-3	ug/l	0.2	U	-	-	-	-
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002 ug/l	0.2	U	-	-	-	-
Pyrene	129-00-0	50 ug/l	0.2	U	-	-	-	-
2-Methylnaphthalene	91-57-6	ug/l	0.2	U	-	-	-	-
Pentachlorophenol	87-86-5	1 ug/l	0.8	U	-	-	-	-
Hexachlorobenzene	118-74-1	0.04 ug/l	0.8	U	-	-	-	-
Hexachloroethane	67-72-1	5 ug/l	0.8	U	-	-	-	-
Total Metals - Westborough Lab								
Aluminum, Total	7429-90-5	ug/l	-	-	-	-	-	-
Antimony, Total	7440-36-0	3 ug/l	0.4	J	0.4	J	0.8	J
Arsenic, Total	7440-38-2	25 ug/l	1.9	-	3.7	-	7	-
Barium, Total	7440-39-3	1000 ug/l	152	-	173.7	-	-	-
Beryllium, Total	7440-41-7	3 ug/l	0.3	J	0.9	-	2	-
Cadmium, Total	7440-43-9	5 ug/l	0.1	J	0.3	-	0.8	-
Calcium, Total	7440-70-2	ug/l	-	-	45700	-	-	-
Chromium, Total	7440-47-3	50 ug/l	19.7	-	54.6	-	106.6	-
Cobalt, Total	7440-48-4	ug/l	14	-	28.7	-	102.2	-
Copper, Total	7440-50-8	200 ug/l	22.1	-	54.4	-	134.3	-
Iron, Total	7439-89-6	300 ug/l	15800	-	39500	-	-	-
Lead, Total	7439-92-1	25 ug/l	7.6	-	17.5	-	73.3	-
Magnesium, Total	7439-95-4	35000 ug/l	33200	-	30600	-	42500	-
Manganese, Total	7439-96-5	300 ug/l	-	-	-	-	-	-
Mercury, Total	7439-97-6	0.7 ug/l	0.2	U	0.2	U	0.08	J
Nickel, Total	7440-02-0	100 ug/l	25.7	-	107.8	-	213.7	-
Potassium, Total	7440-09-7	ug/l	5260	-	8590	-	10600	-
Selenium, Total	7782-49-2	10 ug/l	2	J	6	-	8	-
Silver, Total	7440-22-4	50 ug/l	-	-	-	-	-	-

Sodium, Total	7440-23-5	20000 ug/l	45400		39400		33800	
Thallium, Total	7440-28-0	0.5 ug/l	0.2	J	0.2		0.7	
Vanadium, Total	7440-62-2	ug/l	18.6		36.1		91.2	
Zinc, Total	7440-66-6	2000 ug/l	53.1		95.9		237.7	
Volatile Organics by GC/MS - Westborough Lab								
Methylene chloride	75-09-2	5 ug/l	2.5	U	5	U	5	U
1,1-Dichloroethane	75-34-3	5 ug/l	2.5	U	5	U	5	U
Chloroform	67-66-3	7 ug/l	2.5	U	5	U	5	U
Carbon tetrachloride	56-23-5	5 ug/l	0.5	U	1	U	1	U
1,2-Dichloropropane	78-87-5	1 ug/l	1	U	2	U	2	U
Dibromochloromethane	124-48-1	50 ug/l	0.5	U	1	U	1	U
1,1,2-Trichloroethane	79-00-5	1 ug/l	1.5	U	3	U	3	U
Tetrachloroethene	127-18-4	5 ug/l	6.8		150		210	
Chlorobenzene	108-90-7	5 ug/l	2.5	U	5	U	5	U
Trichlorofluoromethane	75-69-4	5 ug/l	2.5	U	5	U	5	U
1,2-Dichloroethane	107-06-2	0.6 ug/l	0.5	U	1	U	1	U
1,1,1-Trichloroethane	71-55-6	5 ug/l	2.5	U	5	U	5	U
Bromodichloromethane	75-27-4	50 ug/l	0.5	U	1	U	1	U
trans-1,3-Dichloropropene	10061-02-6	0.4 ug/l	0.5	U	1	U	1	U
cis-1,3-Dichloropropene	10061-01-5	0.4 ug/l	0.5	U	1	U	1	U
1,3-Dichloropropene, Total	542-75-6	ug/l	0.5	U	1	U	1	U
1,1-Dichloropropene	563-58-6	5 ug/l	2.5	U	5	U	5	U
Bromoform	75-25-2	50 ug/l	2	U	4	U	4	U
1,1,2,2-Tetrachloroethane	79-34-5	5 ug/l	0.5	U	1	U	1	U
Benzene	71-43-2	1 ug/l	0.5	U	1	U	1	U
Toluene	108-88-3	5 ug/l	2.5	U	5	U	5	U
Ethylbenzene	100-41-4	5 ug/l	2.5	U	5	U	5	U
Chloromethane	74-87-3	ug/l	2.5	U	5	U	5	U
Bromomethane	74-83-9	5 ug/l	2.5	U	5	U	5	U
Vinyl chloride	75-01-4	2 ug/l	1	U	2	U	2	U
Chloroethane	75-00-3	5 ug/l	2.5	U	5	U	5	U
1,1-Dichloroethene	75-35-4	5 ug/l	0.5	U	1	U	1	U
trans-1,2-Dichloroethene	156-60-5	5 ug/l	2.5	U	5	U	5	U
Trichloroethene	79-01-6	5 ug/l	7.3		80		120	
1,2-Dichlorobenzene	95-50-1	3 ug/l	2.5	U	5	U	5	U
1,3-Dichlorobenzene	541-73-1	3 ug/l	2.5	U	5	U	5	U
1,4-Dichlorobenzene	106-46-7	3 ug/l	2.5	U	5	U	5	U
Methyl tert butyl ether	1634-04-4	10 ug/l	2.5	U	5	U	5	U
p/m-Xylene	179601-23-1	5 ug/l	2.5	U	5	U	5	U
o-Xylene	95-47-6	5 ug/l	2.5	U	5	U	5	U
Xylenes, Total	1330-20-7	ug/l	2.5	U	5	U	5	U
cis-1,2-Dichloroethene	156-59-2	5 ug/l	2.5	U	3.4	J	6	
1,2-Dichloroethene, Total	540-59-0	ug/l	2.5	U	3.4	J	6	
Dibromomethane	74-95-3	5 ug/l	5	U	10	U	10	U
1,2,3-Trichloropropane	96-18-4	0.04 ug/l	2.5	U	5	U	5	U
Acrylonitrile	107-13-1	5 ug/l	5	U	10	U	10	U
Styrene	100-42-5	5 ug/l	2.5	U	5	U	5	U
Dichlorodifluoromethane	75-71-8	5 ug/l	5	U	10	U	10	U
Acetone	67-64-1	50 ug/l	5	U	3.8	J	3	J
Carbon disulfide	75-15-0	60 ug/l	5	U	10	U	10	U
2-Butanone	78-93-3	50 ug/l	5	U	10	U	10	U
Vinyl acetate	108-05-4	ug/l	5	U	10	U	10	U
4-Methyl-2-pentanone	108-10-1	ug/l	5	U	10	U	10	U
2-Hexanone	591-78-6	50 ug/l	5	U	10	U	10	U
Bromochloromethane	74-97-5	5 ug/l	2.5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5 ug/l	2.5	U	5	U	5	U
1,2-Dibromoethane	106-93-4	0.0006 ug/l	2	U	4	U	4	U
1,3-Dichloropropane	142-28-9	5 ug/l	2.5	U	5	U	5	U
1,1,1,2-Tetrachloroethane	630-20-6	5 ug/l	2.5	U	5	U	5	U
Bromobenzene	108-86-1	5 ug/l	2.5	U	5	U	5	U
n-Butylbenzene	104-51-8	5 ug/l	2.5	U	5	U	5	U
sec-Butylbenzene	135-98-8	5 ug/l	2.5	U	5	U	5	U
tert-Butylbenzene	98-06-6	5 ug/l	2.5	U	5	U	5	U
o-Chlorotoluene	95-49-8	5 ug/l	2.5	U	5	U	5	U
p-Chlorotoluene	106-43-4	5 ug/l	2.5	U	5	U	5	U

1,2-Dibromo-3-chloropropane	96-12-8	0.04 ug/l	2.5	U	5	U	5	U
Hexachlorobutadiene	87-68-3	0.5 ug/l	2.5	U	5	U	5	U
Isopropylbenzene	98-82-8	5 ug/l	2.5	U	5	U	5	U
p-Isopropyltoluene	99-87-6	5 ug/l	2.5	U	5	U	5	U
Naphthalene	91-20-3	10 ug/l	2.5	U	5	U	4.4	J
n-Propylbenzene	103-65-1	5 ug/l	2.5	U	5	U	5	U
1,2,3-Trichlorobenzene	87-61-6	5 ug/l	2.5	U	5	U	5	U
1,2,4-Trichlorobenzene	120-82-1	5 ug/l	2.5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5 ug/l	2.5	U	5	U	5	U
1,2,4-Trimethylbenzene	95-63-6	5 ug/l	2.5	U	5	U	5	U
1,4-Dioxane	123-91-1	ug/l	250	U	500	U	500	U
p-Diethylbenzene	105-05-5	ug/l	2	U	4	U	4	U
p-Ethyltoluene	622-96-8	ug/l	2	U	4	U	4	U
1,2,4,5-Tetramethylbenzene	95-93-2	5 ug/l	2	U	4	U	4	U
Ethyl ether	60-29-7	ug/l	2.5	U	5	U	5	U
trans-1,4-Dichloro-2-butene	110-57-6	5 ug/l	2.5	U	5	U	5	U

Results Compared to
Division of Water Technical and
Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS),

LOCATION			MW-4	MW-2	MW-3	MW-1	
SAMPLING DATE			7/15/2015	7/15/2015	7/15/2015	7/15/2015	
LAB SAMPLE ID			L1516379-01	L1516379-02	L1516379-03	L1516379-04	L1516379-05
	CasNum	NY-AWQ# Units		Qual	Qual	Qual	Qual
Dissolved Metals - Westborough Lab							
Aluminum, Dissolved	7429-90-5	ug/l	49	-	-	-	-
Antimony, Dissolved	7440-36-0	3 ug/l	1.3	J	-	-	-
Arsenic, Dissolved	7440-38-2	25 ug/l	0.2	J	-	-	-
Barium, Dissolved	7440-39-3	1000 ug/l	60.6	-	-	-	-
Beryllium, Dissolved	7440-41-7	3 ug/l	0.5	U	-	-	-
Cadmium, Dissolved	7440-43-9	5 ug/l	0.1	J	-	-	-
Calcium, Dissolved	7440-70-2	ug/l	47600	-	-	-	-
Chromium, Dissolved	7440-47-3	50 ug/l	4	-	-	-	-
Cobalt, Dissolved	7440-48-4	ug/l	0.9	-	-	-	-
Copper, Dissolved	7440-50-8	200 ug/l	0.7	J	-	-	-
Iron, Dissolved	7439-89-6	300 ug/l	140	-	-	-	-
Lead, Dissolved	7439-92-1	25 ug/l	1	U	-	-	-
Magnesium, Dissolved	7439-95-4	35000 ug/l	23800	-	-	-	-
Manganese, Dissolved	7439-96-5	300 ug/l	-	-	-	-	-
Mercury, Dissolved	7439-97-6	0.7 ug/l	0.2	U	-	-	-
Nickel, Dissolved	7440-02-0	100 ug/l	12.4	-	-	-	-
Potassium, Dissolved	7440-09-7	ug/l	3790	-	-	-	-
Selenium, Dissolved	7782-49-2	10 ug/l	4	J	-	-	-
Silver, Dissolved	7440-22-4	50 ug/l	0.2	J	-	-	-
Sodium, Dissolved	7440-23-5	20000 ug/l	22800	-	-	-	-
Thallium, Dissolved	7440-28-0	0.5 ug/l	0.5	U	-	-	-
Vanadium, Dissolved	7440-62-2	ug/l	5	U	-	-	-
Zinc, Dissolved	7440-66-6	2000 ug/l	5	J	-	-	-
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	319-86-8	0.04 ug/l	0.02	U	-	-	-
Lindane	58-89-9	0.05 ug/l	0.02	U	-	-	-
Alpha-BHC	319-84-6	0.01 ug/l	0.02	U	-	-	-
Beta-BHC	319-85-7	0.04 ug/l	0.02	U	-	-	-
Heptachlor	76-44-8	0.04 ug/l	0.02	U	-	-	-
Aldrin	309-00-2	0 ug/l	0.02	U	-	-	-
Heptachlor epoxide	1024-57-3	0.03 ug/l	0.02	U	-	-	-
Endrin	72-20-8	0 ug/l	0.04	U	-	-	-
Endrin ketone	53494-70-5	5 ug/l	0.04	U	-	-	-
Dieldrin	60-57-1	0.004 ug/l	0.04	U	-	-	-
4,4'-DDE	72-55-9	0.2 ug/l	0.04	U	-	-	-
4,4'-DDD	72-54-8	0.3 ug/l	0.04	U	-	-	-
4,4'-DDT	50-29-3	0.2 ug/l	0.04	U	-	-	-
Endosulfan I	959-98-8	ug/l	0.02	U	-	-	-
Endosulfan II	33213-65-9	ug/l	0.04	U	-	-	-
Endosulfan sulfate	1031-07-8	ug/l	0.04	U	-	-	-
Methoxychlor	72-43-5	35 ug/l	0.2	U	-	-	-
Toxaphene	8001-35-2	0.06 ug/l	0.2	U	-	-	-
cis-Chlordane	5103-71-9	ug/l	0.02	U	-	-	-
trans-Chlordane	5103-74-2	ug/l	0.02	U	-	-	-
Chlordane	57-74-9	0.05 ug/l	0.2	U	-	-	-
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	12674-11-2	0.09 ug/l	0.083	U	-	-	-
Aroclor 1221	11104-28-2	0.09 ug/l	0.083	U	-	-	-
Aroclor 1232	11141-16-5	0.09 ug/l	0.083	U	-	-	-
Aroclor 1242	53469-21-9	0.09 ug/l	0.083	U	-	-	-
Aroclor 1248	12672-29-6	0.09 ug/l	0.083	U	-	-	-
Aroclor 1254	11097-69-1	0.09 ug/l	0.083	U	-	-	-
Aroclor 1260	11096-82-5	0.09 ug/l	0.083	U	-	-	-
Aroclor 1262	37324-23-5	0.09 ug/l	0.083	U	-	-	-
Aroclor 1268	11100-14-4	0.09 ug/l	0.083	U	-	-	-
PCBs, Total	1336-36-3	ug/l	0.083	U	-	-	-
Semivolatile Organics by GC/MS - Westborough Lab							
1,2,4-Trichlorobenzene	120-82-1	5 ug/l	5	U	-	-	-
Bis(2-chloroethyl)ether	111-44-4	1 ug/l	2	U	-	-	-
1,2-Dichlorobenzene	95-50-1	3 ug/l	2	U	-	-	-
1,3-Dichlorobenzene	541-73-1	3 ug/l	2	U	-	-	-
1,4-Dichlorobenzene	106-46-7	3 ug/l	2	U	-	-	-
3,3'-Dichlorobenzidine	91-94-1	5 ug/l	5	U	-	-	-
2,4-Dinitrotoluene	121-14-2	5 ug/l	5	U	-	-	-
2,6-Dinitrotoluene	606-20-2	5 ug/l	5	U	-	-	-
4-Chlorophenyl phenyl ether	7005-72-3	ug/l	2	U	-	-	-
4-Bromophenyl phenyl ether	101-55-3	ug/l	2	U	-	-	-

Bis(2-chloroisopropyl)ether	108-60-1	5 ug/l	2	U	-	-	-	-	-	-
Bis(2-chloroethoxy)methane	111-91-1	5 ug/l	5	U	-	-	-	-	-	-
Hexachlorocyclopentadiene	77-47-4	5 ug/l	20	U	-	-	-	-	-	-
Isophorone	78-59-1	50 ug/l	5	U	-	-	-	-	-	-
Nitrobenzene	98-95-3	0.4 ug/l	2	U	-	-	-	-	-	-
NitrosoDiPhenylAmine(NDPA)/DP	86-30-6	50 ug/l	2	U	-	-	-	-	-	-
n-Nitrosodi-n-propylamine	621-64-7	ug/l	5	U	-	-	-	-	-	-
Bis(2-Ethylhexyl)phthalate	117-81-7	5 ug/l	3	U	-	-	-	-	-	-
Butyl benzyl phthalate	85-68-7	50 ug/l	5	U	-	-	-	-	-	-
Di-n-butylphthalate	84-74-2	50 ug/l	5	U	-	-	-	-	-	-
Di-n-octylphthalate	117-84-0	50 ug/l	5	U	-	-	-	-	-	-
Diethyl phthalate	84-66-2	50 ug/l	5	U	-	-	-	-	-	-
Dimethyl phthalate	131-11-3	50 ug/l	5	U	-	-	-	-	-	-
Biphenyl	92-52-4	5 ug/l	2	U	-	-	-	-	-	-
4-Chloroaniline	106-47-8	5 ug/l	5	U	-	-	-	-	-	-
2-Nitroaniline	88-74-4	5 ug/l	5	U	-	-	-	-	-	-
3-Nitroaniline	99-09-2	5 ug/l	5	U	-	-	-	-	-	-
4-Nitroaniline	100-01-6	5 ug/l	5	U	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/l	2	U	-	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	95-94-3	5 ug/l	10	U	-	-	-	-	-	-
Acetophenone	98-86-2	ug/l	5	U	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	ug/l	5	U	-	-	-	-	-	-
P-Chloro-M-Cresol	59-50-7	ug/l	2	U	-	-	-	-	-	-
2-Chlorophenol	95-57-8	ug/l	2	U	-	-	-	-	-	-
2,4-Dichlorophenol	120-83-2	1 ug/l	5	U	-	-	-	-	-	-
2,4-Dimethylphenol	105-67-9	50 ug/l	5	U	-	-	-	-	-	-
2-Nitrophenol	88-75-5	ug/l	10	U	-	-	-	-	-	-
4-Nitrophenol	100-02-7	ug/l	10	U	-	-	-	-	-	-
2,4-Dinitrophenol	51-28-5	10 ug/l	20	U	-	-	-	-	-	-
4,6-Dinitro-o-cresol	534-52-1	ug/l	10	U	-	-	-	-	-	-
Phenol	108-95-2	1 ug/l	5	U	-	-	-	-	-	-
2-Methylphenol	95-48-7	ug/l	5	U	-	-	-	-	-	-
3-Methylphenol/4-Methylphenol	108-39-4	ug/l	5	U	-	-	-	-	-	-
2,4,5-Trichlorophenol	95-95-4	ug/l	5	U	-	-	-	-	-	-
Benzoic Acid	65-85-0	ug/l	50	U	-	-	-	-	-	-
Benzyl Alcohol	100-51-6	ug/l	2	U	-	-	-	-	-	-
Carbazole	86-74-8	ug/l	2	U	-	-	-	-	-	-
Semivolatile Organics by GC/MS-SIM - Westborough Lab										
Acenaphthene	83-32-9	20 ug/l	0.2	U	-	-	-	-	-	-
2-Chloronaphthalene	91-58-7	10 ug/l	0.2	U	-	-	-	-	-	-
Fluoranthene	206-44-0	50 ug/l	0.2	U	-	-	-	-	-	-
Hexachlorobutadiene	87-68-3	0.5 ug/l	0.5	U	-	-	-	-	-	-
Naphthalene	91-20-3	10 ug/l	0.2	U	-	-	-	-	-	-
Benzo(a)anthracene	56-55-3	0.002 ug/l	0.2	U	-	-	-	-	-	-
Benzo(a)pyrene	50-32-8	0 ug/l	0.2	U	-	-	-	-	-	-
Benzo(b)fluoranthene	205-99-2	0.002 ug/l	0.2	U	-	-	-	-	-	-
Benzo(k)fluoranthene	207-08-9	0.002 ug/l	0.2	U	-	-	-	-	-	-
Chrysene	218-01-9	0.002 ug/l	0.2	U	-	-	-	-	-	-
Acenaphthylene	208-96-8	ug/l	0.2	U	-	-	-	-	-	-
Anthracene	120-12-7	50 ug/l	0.2	U	-	-	-	-	-	-
Benzo(ghi)perylene	191-24-2	ug/l	0.2	U	-	-	-	-	-	-
Fluorene	86-73-7	50 ug/l	0.2	U	-	-	-	-	-	-
Phenanthrene	85-01-8	50 ug/l	0.2	U	-	-	-	-	-	-
Dibenzo(a,h)anthracene	53-70-3	ug/l	0.2	U	-	-	-	-	-	-
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002 ug/l	0.2	U	-	-	-	-	-	-
Pyrene	129-00-0	50 ug/l	0.2	U	-	-	-	-	-	-
2-Methylnaphthalene	91-57-6	ug/l	0.2	U	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1 ug/l	0.8	U	-	-	-	-	-	-
Hexachlorobenzene	118-74-1	0.04 ug/l	0.8	U	-	-	-	-	-	-
Hexachloroethane	67-72-1	5 ug/l	0.8	U	-	-	-	-	-	-
Total Metals - Westborough Lab										
Aluminum, Total	7429-90-5	ug/l	-	-	-	-	-	-	-	-
Antimony, Total	7440-36-0	3 ug/l	0.3	J	0.3	J	0.3	J	0.1	J
Arsenic, Total	7440-38-2	25 ug/l	5.1	-	7.6	-	1.3	-	4	-
Barium, Total	7440-39-3	1000 ug/l	-	-	-	-	104.4	-	416.2	-
Beryllium, Total	7440-41-7	3 ug/l	1.6	-	3.3	-	0.3	J	1.5	-
Cadmium, Total	7440-43-9	5 ug/l	1.1	-	0.8	-	0.18	J	0.2	-
Calcium, Total	7440-70-2	ug/l	-	-	-	-	-	-	-	-
Chromium, Total	7440-47-3	50 ug/l	96.3	-	328.1	-	25.4	-	91.4	-
Cobalt, Total	7440-48-4	ug/l	80.6	-	120	-	12.1	-	63.1	-
Copper, Total	7440-50-8	200 ug/l	130.8	-	366.6	-	98.4	-	316.1	-
Iron, Total	7439-89-6	300 ug/l	-	-	-	-	12000	-	-	-
Lead, Total	7439-92-1	25 ug/l	54.9	-	101.6	-	7.4	-	35.1	-
Magnesium, Total	7439-95-4	35000 ug/l	43000	-	-	-	28400	-	40100	-

Manganese, Total	7439-96-5	300 ug/l	-	-	-	-	-	-	-	
Mercury, Total	7439-97-6	0.7 ug/l	0.07	J	0.3	0.2	U	0.2	U	
Nickel, Total	7440-02-0	100 ug/l	121.4		437.2	31.5		93.5		
Potassium, Total	7440-09-7	ug/l	9630		16100	4640		8400		
Selenium, Total	7782-49-2	10 ug/l	8		12	3	J	4	J	
Silver, Total	7440-22-4	50 ug/l	0.38	J	0.2	0.4	U	0.1	J	
Sodium, Total	7440-23-5	20000 ug/l	27900		22600	33200		-		
Thallium, Total	7440-28-0	0.5 ug/l	0.8		1.2	0.1	J	0.7		
Vanadium, Total	7440-62-2	ug/l	74.6		109.6	12.7		72.8		
Zinc, Total	7440-66-6	2000 ug/l	219.2		380.7	84.4		206		
Volatile Organics by GC/MS - Westborough Lab										
Methylene chloride	75-09-2	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,1-Dichloroethane	75-34-3	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Chloroform	67-66-3	7 ug/l	2.5	U	6.2	U	1.5	J	2.5	U
Carbon tetrachloride	56-23-5	5 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,2-Dichloropropane	78-87-5	1 ug/l	1	U	2.5	U	1	U	1	U
Dibromochloromethane	124-48-1	50 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,1,2-Trichloroethane	79-00-5	1 ug/l	1.5	U	3.8	U	1.5	U	1.5	U
Tetrachloroethene	127-18-4	5 ug/l	100		200	63		6.1		
Chlorobenzene	108-90-7	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Trichlorofluoromethane	75-69-4	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	0.6 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Bromodichloromethane	75-27-4	50 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,3-Dichloropropene, Total	542-75-6	ug/l	0.5	U	1.2	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Bromoform	75-25-2	50 ug/l	2	U	5	U	2	U	2	U
1,1,2,2-Tetrachloroethane	79-34-5	5 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
Benzene	71-43-2	1 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
Toluene	108-88-3	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Ethylbenzene	100-41-4	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Chloromethane	74-87-3	ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Bromomethane	74-83-9	5 ug/l	2.5	U	6.2	U	2.6	U	2.5	U
Vinyl chloride	75-01-4	2 ug/l	1	U	2.5	U	1	U	1	U
Chloroethane	75-00-3	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5 ug/l	0.5	U	1.2	U	0.5	U	0.5	U
trans-1,2-Dichloroethene	156-60-5	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Trichloroethene	79-01-6	5 ug/l	63		120	34		6.8		
1,2-Dichlorobenzene	95-50-1	3 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
o-Xylene	95-47-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Xylenes, Total	1330-20-7	ug/l	2.5	U	6.2	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5 ug/l	2	J	6	J	1.8	J	2.5	U
1,2-Dichloroethene, Total	540-59-0	ug/l	2	J	6	J	1.8	J	2.5	U
Dibromomethane	74-95-3	5 ug/l	5	U	12	U	5	U	5	U
1,2,3-Trichloropropane	96-18-4	0.04 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Acrylonitrile	107-13-1	5 ug/l	5	U	12	U	5	U	5	U
Styrene	100-42-5	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Dichlorodifluoromethane	75-71-8	5 ug/l	5	U	12	U	5	U	5	U
Acetone	67-64-1	50 ug/l	2	J	12	U	2.2	J	5	U
Carbon disulfide	75-15-0	60 ug/l	5	U	12	U	1.1	J	1	J
2-Butanone	78-93-3	50 ug/l	5	U	12	U	5	U	5	U
Vinyl acetate	108-05-4	ug/l	5	U	12	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1	ug/l	5	U	12	U	5	U	5	U
2-Hexanone	591-78-6	50 ug/l	5	U	12	U	5	U	5	U
Bromochloromethane	74-97-5	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
2,2-Dichloropropane	594-20-7	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006 ug/l	2	U	5	U	2	U	2	U
1,3-Dichloropropane	142-28-9	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,1,1,2-Tetrachloroethane	630-20-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
p-Chlorotoluene	106-43-4	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U

p-Isopropyltoluene	99-87-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
Naphthalene	91-20-3	10 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
n-Propylbenzene	103-65-1	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	87-61-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,3,5-Trimethylbenzene	108-67-8	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1	ug/l	250	U	620	U	250	U	250	U
p-Diethylbenzene	105-05-5	ug/l	2	U	5	U	2	U	2	U
p-Ethyltoluene	622-96-8	ug/l	2	U	5	U	2	U	2	U
1,2,4,5-Tetramethylbenzene	95-93-2	5 ug/l	2	U	5	U	2	U	2	U
Ethyl ether	60-29-7	ug/l	2.5	U	6.2	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5 ug/l	2.5	U	6.2	U	2.5	U	2.5	U

ATTACHMENT 3

VAPOR SAMPLE RESULTS

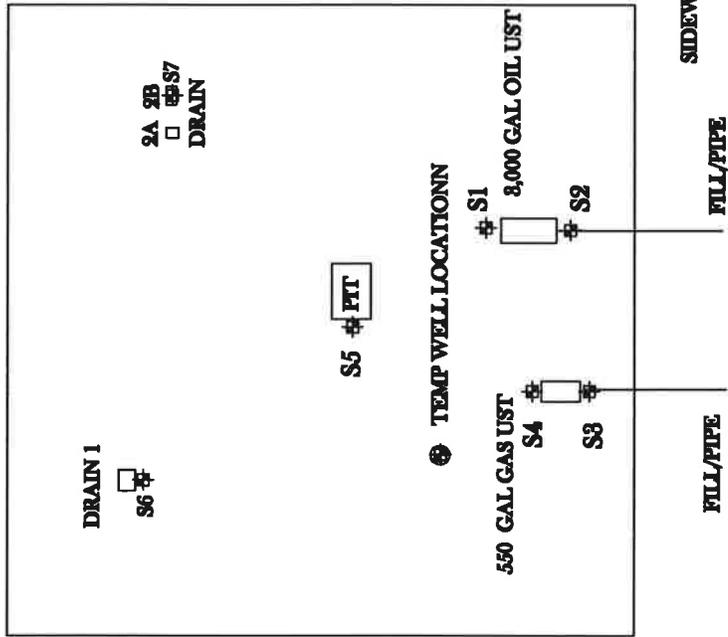
LOCATION			SS-1		SS-2		SS-3		
SAMPLING DATE			4/8/2015		4/8/2015		4/8/2015		
LAB SAMPLE ID	CasNum	NY-SSC	Units	L1507085-01	L1507085-02	L1507085-03	L1507085-03	Qual	Qual
Volatile Organics in Air - Mansfield Lab									
Dichlorodifluoromethane	75-71-8		5 ug/m3	9.89	U	3.3	U	9.89	U
Chloromethane	74-87-3		5 ug/m3	4.13	U	1.38	U	4.13	U
Freon-114	76-14-2		5 ug/m3	14	U	4.66	U	14	U
Vinyl chloride	75-01-4		5 ug/m3	5.11	U	1.71	U	5.11	U
1,3-Butadiene	106-99-0		5 ug/m3	4.42	U	1.48	U	6.22	U
Bromomethane	74-83-9		5 ug/m3	7.77	U	2.59	U	7.77	U
Chloroethane	75-00-3		5 ug/m3	5.28	U	1.76	U	5.28	U
Ethanol	64-17-5		5 ug/m3	47.1	U	15.7	U	47.1	U
Vinyl bromide	593-60-2		5 ug/m3	8.74	U	2.92	U	8.74	U
Acetone	67-64-1		5 ug/m3	73.6	U	76.3	U	82.9	U
Trichlorofluoromethane	75-69-4		5 ug/m3	11.2	U	3.75	U	11.2	U
Isopropanol	67-63-0		5 ug/m3	13.3	U	13.7	U	12.3	U
1,1-Dichloroethene	75-35-4		5 ug/m3	7.93	U	2.64	U	7.93	U
Tertiary butyl Alcohol	75-65-0		5 ug/m3	15.2	U	9.25	U	15.9	U
Methylene chloride	75-09-2		5 ug/m3	17.4	U	5.8	U	17.4	U
3-Chloropropene	107-05-1		5 ug/m3	6.26	U	2.09	U	6.26	U
Carbon disulfide	75-15-0		5 ug/m3	6.23	U	2.54	U	41.4	U
Freon-113	76-13-1		5 ug/m3	15.3	U	5.11	U	15.3	U
trans-1,2-Dichloroethene	156-60-5		5 ug/m3	7.93	U	2.64	U	7.93	U
1,1-Dichloroethane	75-34-3		5 ug/m3	8.09	U	2.7	U	8.09	U
Methyl tert butyl ether	1634-04-4		5 ug/m3	7.21	U	2.4	U	7.21	U
2-Butanone	78-93-3		5 ug/m3	14.7	U	11.6	U	14.7	U
cis-1,2-Dichloroethene	156-59-2		5 ug/m3	7.93	U	2.64	U	7.93	U
Ethyl Acetate	141-78-6		5 ug/m3	18	U	14.7	U	27	U
Chloroform	67-66-3		5 ug/m3	9.77	U	3.26	U	9.77	U
Tetrahydrofuran	109-99-9		5 ug/m3	14.7	U	4.93	U	14.7	U
1,2-Dichloroethane	107-06-2		5 ug/m3	8.09	U	2.7	U	8.09	U
n-Hexane	110-54-3		5 ug/m3	7.05	U	3.52	U	7.05	U
1,1,1-Trichloroethane	71-55-6		5 ug/m3	10.9	U	3.64	U	10.9	U
Benzene	71-43-2		5 ug/m3	6.39	U	2.13	U	6.39	U
Carbon tetrachloride	56-23-5		5 ug/m3	12.6	U	4.2	U	12.6	U
Cyclohexane	110-82-7		5 ug/m3	6.88	U	2.3	U	6.88	U
1,2-Dichloropropane	78-87-5		5 ug/m3	9.24	U	3.08	U	9.24	U
Bromodichloromethane	75-27-4		5 ug/m3	13.4	U	4.47	U	13.4	U
1,4-Dioxane	123-91-1		5 ug/m3	7.21	U	2.4	U	7.21	U
Trichloroethene	79-01-6		5 ug/m3	3760	U	1130	U	564	U
2,2,4-Trimethylpentane	540-84-1		5 ug/m3	9.34	U	3.12	U	9.34	U
Heptane	142-82-5		5 ug/m3	8.2	U	4.39	U	8.2	U
cis-1,3-Dichloropropene	10061-01-5		5 ug/m3	9.08	U	3.03	U	9.08	U
4-Methyl-2-pentanone	108-10-1		5 ug/m3	20.5	U	6.84	U	20.5	U
trans-1,3-Dichloropropene	10061-02-6		5 ug/m3	9.08	U	3.03	U	9.08	U
1,1,2-Trichloroethane	79-00-5		5 ug/m3	10.9	U	3.64	U	10.9	U
Toluene	108-88-3		5 ug/m3	13.3	U	7.8	U	21.5	U
2-Hexanone	591-78-6		5 ug/m3	8.2	U	2.73	U	8.2	U
Dibromochloromethane	124-48-1		5 ug/m3	17	U	5.68	U	17	U
1,2-Dibromoethane	106-93-4		5 ug/m3	15.4	U	5.13	U	15.4	U
Tetrachloroethene	127-18-4		5 ug/m3	2400	U	685	U	365	U
Chlorobenzene	108-90-7		5 ug/m3	9.21	U	3.07	U	9.21	U
Ethylbenzene	100-41-4		5 ug/m3	8.69	U	2.9	U	8.69	U
p/m-Xylene	179601-23-1		5 ug/m3	17.4	U	7.34	U	17.4	U
Bromoform	75-25-2		5 ug/m3	20.7	U	6.9	U	20.7	U
Styrene	100-42-5		5 ug/m3	8.52	U	2.84	U	8.52	U
1,1,2,2-Tetrachloroethane	79-34-5		5 ug/m3	13.7	U	4.58	U	13.7	U
o-Xylene	95-47-6		5 ug/m3	8.69	U	2.9	U	8.69	U
4-Ethyltoluene	622-96-8		5 ug/m3	9.83	U	3.28	U	9.83	U
1,3,5-Trimethylbenzene	108-67-8		5 ug/m3	9.83	U	3.28	U	9.83	U
1,2,4-Trimethylbenzene	95-63-6		5 ug/m3	9.83	U	3.28	U	9.83	U
Benzyl chloride	100-44-7		5 ug/m3	10.4	U	3.45	U	10.4	U
1,3-Dichlorobenzene	541-73-1		5 ug/m3	12	U	4.01	U	12	U
1,4-Dichlorobenzene	106-46-7		5 ug/m3	12	U	4.01	U	12	U
1,2-Dichlorobenzene	95-50-1		5 ug/m3	12	U	4.01	U	12	U
1,2,4-Trichlorobenzene	120-82-1		5 ug/m3	14.8	U	4.95	U	14.8	U
Hexachlorobutadiene	87-68-3		5 ug/m3	21.3	U	7.11	U	21.3	U

LOCATION DATE SAMPLING DATE LAB SAMPLE ID	CashNum	NY-SSC	Units	SSA10 6/1/2015 L1512178-01	SSA20 6/1/2015 L1512178-02	SSA30 6/1/2015 L1512178-03	SSB10 6/1/2015 L1512178-04	SSB20 6/1/2015 L1512178-05	SSB30 6/1/2015 L1512178-06	SSC10 6/1/2015 L1512178-07	SSC20 6/1/2015 L1512178-08	SSC30 6/1/2015 L1512178-09						
				Qual														
Volatiles Organics in Air - Mansfield Lab																		
Dichlorodifluoromethane	75-71-8	5 ug/m3	35.4	U	19.8	U	31.9	U	17.5	U	57.4	U	3.45	U	16.4	U	19.9	U
Chloromethane	74-87-3	5 ug/m3	14.8	U	8.26	U	13.3	U	7.31	U	24	U	0.413	U	6.84	U	8.3	U
Freon-114	76-14-2	5 ug/m3	50	U	10.2	U	45.2	U	24.7	U	81.1	U	1.4	U	23.1	U	28.1	U
Vinyl chloride	75-01-4	5 ug/m3	18.3	U	2.8	U	16.5	U	9.05	U	29.7	U	0.511	U	8.46	U	10.3	U
1,3-Butadiene	106-99-0	5 ug/m3	15.8	U	73.2	U	14.3	U	7.83	U	25.7	U	0.779	U	7.32	U	8.99	U
Bromomethane	74-83-9	5 ug/m3	27.8	U	15.5	U	25.1	U	13.7	U	45	U	26.4	U	12.9	U	15.6	U
Chloroethane	75-00-3	5 ug/m3	18.9	U	10.6	U	17	U	9.94	U	30.6	U	17.9	U	8.73	U	10.6	U
Ethanol	64-17-5	5 ug/m3	169	U	94.2	U	152	U	83.3	U	273	U	160	U	77.8	U	17.9	U
Vinyl bromide	593-60-2	5 ug/m3	31.3	U	17.5	U	28.2	U	15.5	U	50.7	U	29.7	U	14.5	U	17.6	U
Acetone	67-64-1	5 ug/m3	865	U	1670	U	664	U	42	U	138	U	29.7	U	80.8	U	39.2	U
Trichlorofluoromethane	75-69-4	5 ug/m3	40.2	U	22.5	U	36.3	U	19.9	U	65.2	U	38.2	U	42.5	U	47.7	U
Isopropanol	67-63-0	5 ug/m3	44	U	24.6	U	39.8	U	21.8	U	71.3	U	41.8	U	1.62	U	18.6	U
1,1-Dichloroethane	75-35-4	5 ug/m3	55.9	U	16.2	U	26.6	U	14	U	46	U	26.9	U	2.39	U	20.3	U
Tertiary Butyl Alcohol	75-65-0	5 ug/m3	54.3	U	30.3	U	49.1	U	26.8	U	87.9	U	51.5	U	0.793	U	15.9	U
Methylene chloride	75-09-2	5 ug/m3	62.2	U	34.7	U	56.3	U	30.7	U	101	U	59.1	U	1.52	U	25	U
Carbon disulfide	107-05-1	5 ug/m3	22.4	U	12.5	U	20.2	U	11.1	U	36.3	U	21.3	U	0.626	U	12.5	U
Freon-113	75-15-0	5 ug/m3	215	U	85.6	U	201	U	14.8	U	10.361	U	21.1	U	40.2	U	10.3	U
trans-1,2-Dichloroethane	75-60-5	5 ug/m3	54.9	U	30.7	U	49.5	U	14	U	88.9	U	52	U	1.53	U	25.4	U
1,1-Dichloroethane	75-34-3	5 ug/m3	28.4	U	15.9	U	26	U	14.3	U	47	U	27.5	U	0.793	U	13.1	U
Methyl tert butyl ether	1634-04-4	5 ug/m3	29	U	16.2	U	28.1	U	12.8	U	41.8	U	24.5	U	0.721	U	13.4	U
2-Butanone	78-93-3	5 ug/m3	25.8	U	14.4	U	23.3	U	23.3	U	85.5	U	50.1	U	3.24	U	11.9	U
cis-1,2-Dichloroethane	156-58-2	5 ug/m3	28.4	U	26.7	U	50.7	U	34.8	U	87.2	U	55.5	U	1.48	U	18.8	U
Ethyl Acetate	141-78-6	5 ug/m3	64.5	U	36	U	58.4	U	31.9	U	105	U	61.3	U	1.8	U	29.8	U
Chloroform	67-66-3	5 ug/m3	35	U	23.4	U	31.5	U	17.3	U	56.6	U	33.2	U	7.33	U	16.2	U
Tetrahydrofuran	109-99-9	5 ug/m3	52.8	U	29.5	U	26.1	U	26.1	U	85.5	U	50.1	U	1.47	U	24.4	U
1,2-Dichloroethane	107-06-2	5 ug/m3	29	U	16.2	U	28.1	U	14.3	U	40.9	U	27.5	U	0.909	U	13.4	U
n-Hexane	110-54-3	5 ug/m3	29.8	U	65.2	U	22.8	U	12.5	U	40.9	U	23.9	U	19.2	U	11.7	U
1,1,1-Trichloroethane	71-43-2	5 ug/m3	39.1	U	13.5	U	20.6	U	19.3	U	37.1	U	21.7	U	4.22	U	10.6	U
Benzene	71-43-2	5 ug/m3	22.9	U	13.5	U	35.2	U	11.3	U	63.3	U	31.8	U	1.09	U	18.1	U
Carbon tetrachloride	56-23-5	5 ug/m3	45	U	25.2	U	40.6	U	22.3	U	73	U	42.7	U	1.26	U	20.8	U
Cyclohexane	110-82-7	5 ug/m3	24.6	U	13.8	U	22.2	U	12.2	U	39.9	U	23.4	U	5.44	U	20.8	U
1,2-Dichloropropane	78-87-5	5 ug/m3	78-87-5	U	18.5	U	29.9	U	16.4	U	53.6	U	30.8	U	0.924	U	11.4	U
Bromodichloromethane	75-27-4	5 ug/m3	48	U	26.8	U	43.3	U	23.7	U	77.7	U	45.5	U	1.34	U	18.6	U
1,4-Dioxane	123-91-1	5 ug/m3	25.8	U	14.4	U	23.3	U	12.8	U	41.8	U	24.5	U	0.721	U	22.2	U
Trichloroethene	79-01-5	5 ug/m3	13100	U	9140	U	10900	U	7580	U	15200	U	11100	U	4.46	U	11.9	U
2,2,4-Trimethylpentane	540-84-1	5 ug/m3	33.4	U	18.7	U	30.2	U	16.5	U	54.2	U	31.7	U	0.934	U	15.5	U
Heptane	142-82-5	5 ug/m3	29.3	U	20.4	U	26.5	U	15.4	U	47.5	U	27.8	U	7.05	U	13.6	U
cis-1,3-Dichloropropene	10061-01-5	5 ug/m3	32.5	U	18.2	U	29.3	U	16.1	U	52.7	U	30.8	U	0.908	U	15	U
4-Methyl-2-pentanol	108-10-1	5 ug/m3	73.4	U	41	U	66.4	U	36.3	U	119	U	69.7	U	2.05	U	33.9	U
trans-1,3-Dichloropropene	10061-02-6	5 ug/m3	32.5	U	18.2	U	29.3	U	16.1	U	52.7	U	30.8	U	0.908	U	15	U
1,1,2-Trichloroethane	79-00-5	5 ug/m3	39.1	U	21.8	U	35.2	U	19.3	U	63.3	U	37	U	1.09	U	18.1	U
Toluene	108-88-3	5 ug/m3	27	U	19.2	U	24.3	U	21.6	U	43.7	U	25.6	U	2.13	U	15.5	U
2-Hexanone	591-78-6	5 ug/m3	29.3	U	22.4	U	26.5	U	14.5	U	47.5	U	27.8	U	0.82	U	13.6	U
Dibromochloromethane	124-48-1	5 ug/m3	61	U	34.1	U	55	U	30.2	U	98.8	U	57.8	U	1.7	U	28.2	U
1,2-Dibromoethane	106-93-4	5 ug/m3	55	U	30.7	U	49.6	U	27.2	U	89.1	U	52.2	U	1.54	U	25.4	U
Tetrachloroethene	127-18-4	5 ug/m3	8070	U	3710	U	3020	U	2350	U	9090	U	3810	U	4.71	U	1680	U
Chlorobenzene	108-90-7	5 ug/m3	33	U	18.4	U	29.8	U	16.3	U	53.4	U	31.3	U	0.921	U	15.2	U
Ethylbenzene	100-41-4	5 ug/m3	31.1	U	17.4	U	28.1	U	15.4	U	50.4	U	29.5	U	4.65	U	14.2	U
p/m-Xylene	179601-23-1	5 ug/m3	62.1	U	34.7	U	56	U	30.8	U	101	U	59.1	U	15.3	U	28.7	U
Bromobenzene	75-25-2	5 ug/m3	74	U	41.4	U	66.8	U	36.6	U	120	U	70.2	U	2.07	U	34.2	U
Styrene	100-42-5	5 ug/m3	30.5	U	17	U	27.5	U	15.1	U	49.4	U	28.9	U	0.852	U	14.1	U
1,1,2,2-Tetrachloroethane	79-34-5	5 ug/m3	49.2	U	27.5	U	44.4	U	24.3	U	79.7	U	46.6	U	1.37	U	22.7	U
o-Xylene	95-47-6	5 ug/m3	31.1	U	17.4	U	28.1	U	15.4	U	50.4	U	29.5	U	6.91	U	14.4	U
4-Ethyltoluene	622-96-8	5 ug/m3	35.2	U	19.7	U	31.8	U	17.4	U	57	U	33.4	U	1.06	U	16.3	U
1,3,5-Trimethylbenzene	108-61-8	5 ug/m3	35.2	U	19.7	U	31.8	U	17.4	U	57	U	33.4	U	1.06	U	16.3	U
1,2,4-Trimethylbenzene	95-63-6	5 ug/m3	35.2	U	19.7	U	31.8	U	17.4	U	57	U	33.4	U	1.06	U	16.3	U
Benzyl chloride	100-44-7	5 ug/m3	37.1	U	20.7	U	38.8	U	18.3	U	60.1	U	35.2	U	3.32	U	17.1	U
1,3-Dichlorobenzene	541-73-1	5 ug/m3	43	U	24	U	38.8	U	21.3	U	69.7	U	40.8	U	1.2	U	19.9	U
1,4-Dichlorobenzene	106-46-7	5 ug/m3	43	U	24	U	38.8	U	21.3	U	69.7	U	40.8	U	1.2	U	19.9	U
1,2-Dichlorobenzene	95-50-1	5 ug/m3	43	U	24	U	38.8	U	21.3	U	69.7	U	40.8	U	1.2	U	19.9	U
1,2,4-Trichlorobenzene	120-82-1	5 ug/m3	53.2	U	29.7	U	48	U	26.3	U	86.1	U	50.4	U	1.48	U	24.6	U
Hexachlorobutadiene	87-68-3	5 ug/m3	76.4	U	42.7	U	68.9	U	37.8	U	124	U	72.4	U	2.13	U	35.3	U

LOCATION	SSD10	SSD20	SSD30	SSD30				
SAMPLING DATE	7/14/2015	7/14/2015	7/14/2015	7/14/2015				
LAB SAMPLE ID	L1516251-01	L1516251-02	L1516251-03	L1516251-03 R1				
CasNum	NY-SSC	Units	Qual	Qual	Qual	Qual	Qual	Qual
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	75-71-8	5 ug/m3	3.3	U	19.7		19.7	-
Chloromethane	74-87-3	5 ug/m3	1.38	U	4.13	U	4.13	U
Freon-114	76-14-2	5 ug/m3	4.66	U	14	U	14	U
Vinyl chloride	75-01-4	5 ug/m3	1.71	U	5.11	U	5.11	U
1,3-Butadiene	106-99-0	5 ug/m3	64.6		17		7.48	-
Bromomethane	74-83-9	5 ug/m3	2.59	U	7.77	U	7.77	U
Chloroethane	75-00-3	5 ug/m3	1.76	U	5.28	U	5.28	U
Ethanol	64-17-5	5 ug/m3	18.3		47.1	U	47.1	U
Vinyl bromide	593-60-2	5 ug/m3	2.92	U	8.74	U	8.74	U
Acetone	67-64-1	5 ug/m3	1250		1390		995	-
Trichlorofluoromethane	75-69-4	5 ug/m3	3.75	U	11.2	U	11.2	U
Isopropanol	67-63-0	5 ug/m3	4.1	U	12.3	U	12.3	U
1,1-Dichloroethene	75-35-4	5 ug/m3	2.64	U	7.93	U	7.93	U
Tertiary butyl Alcohol	75-65-0	5 ug/m3	5.06	U	15.2	U	15.2	U
Methylene chloride	75-09-2	5 ug/m3	5.8	U	17.4	U	17.4	U
3-Chloropropene	107-05-1	5 ug/m3	2.09	U	6.23	U	6.23	U
Carbon disulfide	75-15-0	5 ug/m3	10.3		6.23	U	6.23	U
Freon-113	76-13-1	5 ug/m3	5.11	U	15.3	U	15.3	U
trans-1,2-Dichloroethene	156-60-5	5 ug/m3	2.64	U	7.93	U	7.93	U
1,1-Dichloroethane	75-34-3	5 ug/m3	2.7	U	8.09	U	8.09	U
Methyl tert butyl ether	1634-04-4	5 ug/m3	2.4	U	7.21	U	7.21	U
2-Butanone	78-93-3	5 ug/m3	24.6		15.5		14.7	U
cis-1,2-Dichloroethene	156-59-2	5 ug/m3	2.64	U	156		646	-
Ethyl Acetate	141-78-6	5 ug/m3	6.02	U	18	U	18	U
Chloroform	67-66-3	5 ug/m3	21.4		9.77	U	9.96	U
Tetrahydrofuran	109-99-9	5 ug/m3	4.93	U	14.7	U	14.7	U
1,2-Dichloroethane	107-06-2	5 ug/m3	2.7	U	8.09	U	8.09	U
n-Hexane	110-54-3	5 ug/m3	24.7		7.05	U	7.05	U
1,1,1-Trichloroethane	71-55-6	5 ug/m3	4.02		10.9	U	10.9	U
Benzene	71-43-2	5 ug/m3	10.8		6.39	U	6.39	U
Carbon tetrachloride	56-23-5	5 ug/m3	4.2	U	12.6	U	14.7	-
Cyclohexane	110-82-7	5 ug/m3	3.51		6.88	U	6.88	U
1,2-Dichloropropane	78-87-5	5 ug/m3	3.08	U	9.24	U	9.24	U
Bromodichloromethane	75-27-4	5 ug/m3	4.47	U	13.4	U	13.4	U
1,4-Dioxane	123-91-1	5 ug/m3	2.4	U	7.21	U	7.21	U
Trichloroethene	79-01-6	5 ug/m3	490		3000		5750	E 4700
2,2,4-Trimethylpentane	540-84-1	5 ug/m3	3.12	U	9.34	U	9.34	U
Heptane	142-82-5	5 ug/m3	11.1		8.2	U	8.2	U
cis-1,3-Dichloropropene	10061-01-5	5 ug/m3	3.03	U	9.08	U	9.08	U
4-Methyl-2-pentanone	108-10-1	5 ug/m3	6.84	U	20.5	U	20.5	U
trans-1,3-Dichloropropene	10061-02-6	5 ug/m3	3.03	U	9.08	U	9.08	U
1,1,2-Trichloroethane	79-00-5	5 ug/m3	3.64	U	10.9	U	10.9	U
Toluene	108-88-3	5 ug/m3	10.4		7.54	U	7.54	U
2-Hexanone	591-78-6	5 ug/m3	2.73	U	8.2	U	8.2	U
Dibromochloromethane	124-48-1	5 ug/m3	5.68	U	17	U	17	U
1,2-Dibromoethane	106-93-4	5 ug/m3	5.13	U	15.4	U	15.4	U
Tetrachloroethene	127-18-4	5 ug/m3	50.2		57.7		20.4	-
Chlorobenzene	108-90-7	5 ug/m3	3.07	U	9.21	U	9.21	U
Ethylbenzene	100-41-4	5 ug/m3	2.9	U	8.69	U	8.69	U
p/m-Xylene	179601-23-1	5 ug/m3	5.78	U	17.4	U	17.4	U
Bromoform	75-25-2	5 ug/m3	6.9	U	20.7	U	20.7	U
Styrene	100-42-5	5 ug/m3	2.84	U	8.52	U	8.52	U
1,1,2,2-Tetrachloroethane	79-34-5	5 ug/m3	4.58	U	13.7	U	13.7	U
o-Xylene	95-47-6	5 ug/m3	2.9	U	8.69	U	8.69	U
4-Ethyltoluene	622-96-8	5 ug/m3	3.28	U	9.83	U	9.83	U
1,3,5-Trimethylbenzene	108-67-8	5 ug/m3	3.28	U	9.83	U	9.83	U
1,2,4-Trimethylbenzene	95-63-6	5 ug/m3	3.28	U	9.83	U	9.83	U
Benzyl chloride	100-44-7	5 ug/m3	3.45	U	10.4	U	10.4	U
1,3-Dichlorobenzene	541-73-1	5 ug/m3	4.01	U	12	U	12	U
1,4-Dichlorobenzene	106-46-7	5 ug/m3	4.01	U	12	U	12	U
1,2-Dichlorobenzene	95-50-1	5 ug/m3	4.01	U	12	U	12	U
1,2,4-Trichlorobenzene	120-82-1	5 ug/m3	4.95	U	14.8	U	14.8	U
Hexachlorobutadiene	87-68-3	5 ug/m3	7.11	U	21.3	U	21.3	U

ATTACHMENT 4

FIGURES



LEXINGTON AVE

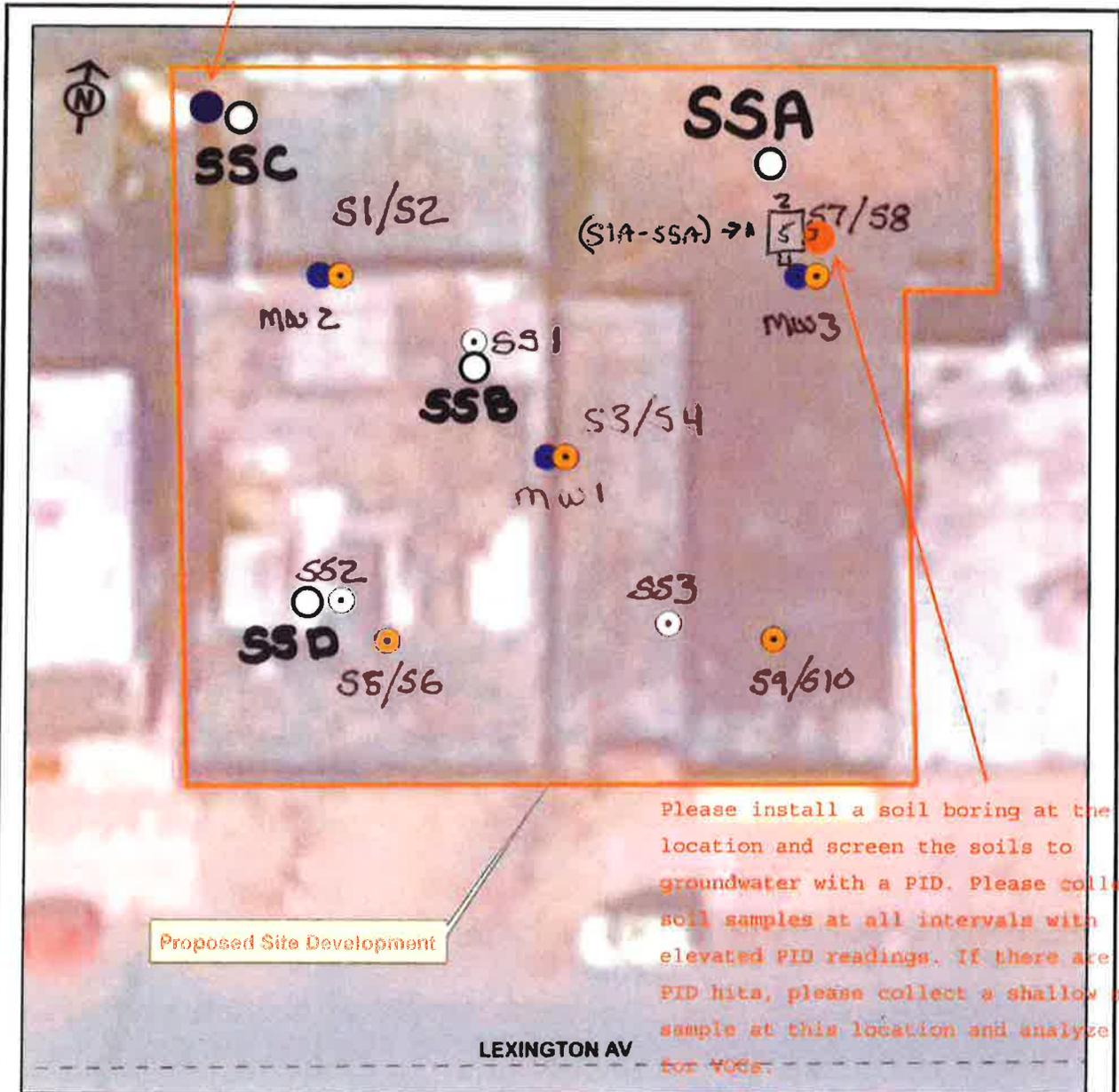
TERMS

ENVIRONMENTAL SERVICES, INC.
 599 SPRINGFIELD AVENUE
 BERKELEY HEIGHTS, NJ 07922
 Phone 908-484-0028 Fax 908-484-8235

INVESTIGATION
 SAMPLE LOCATION
 841 LEXINGTON AVE
 BROOKLYN, NY

DWN	DES	PROJECT No.
CHKD	APPD	FILE:
DATE 12-11-14	REV	FIGURE No. 1

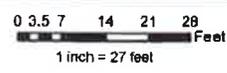
Please collect a groundwater sample at this location and analyze it for full parameters (VOCs, SVOCs, pesticides, PCBs, and total and dissolved metals).



Proposed Site Development

Please install a soil boring at the location and screen the soils to groundwater with a PID. Please collect soil samples at all intervals with elevated PID readings. If there are no PID hits, please collect a shallow soil sample at this location and analyze it for VOCs.

LEXINGTON AV



Legend

- Temporary Well Point
- Soil Boring
- Soil Vapor Point

**FIGURE 2
PROPOSED SAMPLING PLAN**

Phase II Workplan
843 Lexington Avenue
(Block 1623 / Lot 73)
Brooklyn, New York



equity environmental engineering
227 Rt. 209, Bldg. 1, Flanders, NJ 07838, (973) 527-7451

DRAWN BY / DATE	CHK / DATE	DRAWING NUMBER
NG / 020915		2015008

Images imagery basemap provided by ESRI
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National Geographic Society
Locations of all proposed sampling points are approximate and shown for presentation purposes only.

At the four soil vapor locations, (designated ○), please collect soil vapor samples at 10, 20, and 30 feet below grade

ATTACHMENT 5

**BORING LOGS
WELL RECORDS/LOGS**



BORING NO.:
MONITORING WELL NO.: MW1

JOB NO.:	CLIENT:	PROJECT LOCATION:
LOCATION OF WELL:	N/A	841-847 Lexington Brklyn, NY
DRILLING CONTRACTOR:	EMC	ELEVATION DATUM:
DRILLING RIG TYPE:	GEOPROBE	
DRILLER:		DATE STARTED: 4-2-15
SAMPLER TYPE:	AUGER	DATE COMPLETED: 4-3-15
		TOTAL DEPTH: 68.5 ft. below grade (bg)
		WATER LEVEL: 41 ft. below grade (bg)

SAMPLE	PID (PPM)	RECOVERY (Inches)	DEPTH (feet)	LITHOLOGY	DEPTH (feet)	COMMENTS
			0.0-0.5	Concrete		
			0.5-1.5	Fill Materials		
			1.5-12.0	Lt brown clay/sand		
			12-14	Reddish brown sandstone gravel		
			14-70	Hard peack silt/fill		Steam from auger @ 49 ft



BORING NO: MONITORING WELL NO: MW2 Page 1 of 1

JOB NO:	CLIENT:	CALLER/MARCAL	PROJECT LOCATION:
LOCATION OF WELL:	N/A		841-847 Lexington Brklyn, NY
DRILLING CONTRACTOR:	EMC		ELEVATION DATUM:
DRILLING RIG TYPE:	GEOPROBE		DATE STARTED: 4-2-15
DRILLER:			DATE COMPLETED: 4-3-15
SAMPLER TYPE:	AUGER		TOTAL DEPTH: 55 ft. below grade (bg)
			WATER LEVEL: 41 ft. below grade (bg)

SAMPLE	PID (PPM)	RECOVERY (Inches)	DEPTH (feet)	LITHOLOGY	DEPTH (feet)	COMMENTS
			0.0-0.5	Concrete		
			0.5-1.5	Fill Materials		
			1.5-12.0	Lt brown clay/sand		
			12-14	Reddish brown sandstone gravel		
			14-55	Hard pack silt/clill		Steam from auger @ 47 ft



BORING NO.:
MONITORING WELL NO.: MW3

Page 1 of 1

JOB NO:	CLIENT:	PROJECT LOCATION:
LOCATION OF WELL:	N/A	841-847 Lexington Bklyn, NY
DRILLING CONTRACTOR:	EMC	ELEVATION DATUM:
DRILLING RIG TYPE:	GEOPROBE	DATE STARTED: 4-2-15
DRILLER:	AUGER	DATE COMPLETED: 4-3-15
SAMPLER TYPE:		TOTAL DEPTH: 55 ft. below grade (bg)
		WATER LEVEL: 41 ft. below grade (bg)

SAMPLE	PID (PPM)	RECOVERY (inches)	DEPTH (feet)	LITHOLOGY	DEPTH (feet)	COMMENTS
			0.0-0.5	Concrete		
			0.5-1.5	Fill Materials		
			1.5-12.0	Lt brown clay/sand		
			12-14	Reddish brown sandstone gravel		Refusal @ 15ft moved well location
			14-55	Hard pack silt/clill		Steam from auger @ 45 ft



**LEONARD J. STRANDBERG AND ASSOCIATES,
Consulting Engineers and Land Surveyors, P.C.**

Job # 14-37701E

**843 Lexington Avenue
Brooklyn, NY
Block: 1623, Lot: 73**

MONITORING WELLS - LOCATIONS AND ELEVATIONS

DESC.	NORTHING	EASTING	ELEVATIONS	
			RIM	INNER PVC
MW-1	190907.28	1004534.51	51.24	52.80
MW-2	190931.45	1004507.66	51.36	56.11
MW-3	190947.85	1004559.27	51.32	54.05

Coordinates are referenced to NAD 83 (Long Island Zone)
Elevations are referenced to NAVD 88.



Field Sampling Data

Low Flow

Client		Terms Environmental Services										
Project		843-847 Lexington Avenue										
Location		Brooklyn, N.Y.										
Weather		Clear in 40's.										
Well ID	Date Sampled	Time	Ph (units)	Conduct. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (c)	Redox (mv)	Pumping (ml/min)	Depth (ToC)	Depth to Bottom	Well Diameter
MW-1	4/8/2015	12:35	7.40	1.010	OUT	2.1	14.5	203	250	42.08	70.40	2
MW-1	4/8/2015	12:38	7.20	1.020		1.5	14.6	214	250	42.10		
MW-1	4/8/2015	12:41	7.22	1.030	OF	2.3	15.1	224	250	42.10		
MW-1	4/8/2015	12:44	7.16	1.030		1.5	15.2	224	250	42.11		
MW-1	4/8/2015	12:47	7.17	1.040	RANGE	1.3	15.1	223	250	42.11		
MW-1	4/8/2015	12:50	7.13	1.040		1.3	15.0	221	250	42.13		
MW-1	4/8/2015	12:53	7.19	1.050		1.3	15.0	221	250	42.13		
PID		0.6										
MW-2	4/8/2015	14:11	7.27	1.231	OUT	1.5	15.6	236	200	40.43	53.43	2
MW-2	4/8/2015	14:14	7.25	1.236		1.3	15.7	245	200	41.44		
MW-2	4/8/2015	14:17	7.20	1.304	OF	1.1	15.8	253	200	42.39		
MW-2	4/8/2015	14:20	7.17	1.307		1.0	15.8	260	200	43.28		
MW-2	4/8/2015	14:23	7.17	1.310	RANGE	1.0	15.9	262	200	44.31		
PID		40.3										
MW-3	4/8/2015	15:09	6.89	1.535	OUT	1.6	15.9	271	200	43.33	51.15	2
MW-3	4/8/2015	15:12	6.74	1.580	OF	1.8	16.1	241	200	44.27		
MW-3	4/8/2015	15:15	6.71	1.587	RANGE	2.1	16.2	239	200	45.30		
MW-3	4/8/2015	15:18	6.69	1.592		2.0	16.2	225	200	46.28		
PID		6.3										



Thursday, June 04, 2015

Terms Environmental Services, Inc
599 Springfield Avenue
Suite 2
Berkeley Heights, New Jersey 07922

Re: Monitoring Well Construction
843-847 Lexington Avenue
Brooklyn, NY 11221

Dear Peter Lakatos:

Environmental Management Consultants, Inc. (EMC) at 72 Cobb Street, Rockaway, NJ 07866 (973-983-7733) was hired to install three monitoring wells at the above noted property. A mark out was called in (150711906) and an auger rig was used to install the monitoring wells. Please find below the details of the wells that were installed.

MW-1

- | | |
|---|------------------|
| 1. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): | .25 |
| 2. Total Depth of Well : | 68.5 |
| 3. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01') | 45 |
| 4. Screen Length (or length of open hole) in feet: | 23.5 |
| 5. Screen or Slot Size: | 0.010 |
| 6. Screen or Slot Material: | PVC |
| 7. Casing Material (PVC, steel, or other - specify): | PVC |
| 8. Casing Diameter (inches): | 2 |
| 9. Static Water Level from top of casing at the time of installation (nearest 0.01'): | 40 |
| 10. Yield (gallons per minute): | N/A |
| 11. Development Technique (specify): | Submersible Pump |
| 12. Length of Time well is developed/pumped or bailed (hours and minutes): | 5 |

MW-2

- 1. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): .25
- 2. Total Depth of Well: 55
- 3. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'): 30
- 4. Screen Length (or length of open hole) in feet: 25
- 5. Screen or Slot Size: 0.010
- 6. Screen or Slot Material: PVC
- 7. Casing Material (PVC, steel, or other – specify): PVC
- 8. Casing Diameter (inches): 2
- 9. Static Water Level from top of casing at the time of installation (nearest 0.01'): 40
- 10. Yield (gallons per minute): N/A
- 11. Development Technique (specify): Submersible Pump
- 12. Length of Time well is developed/pumped or bailed (hours and minutes): .5

MW-3

- 1. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): .25
- 2. Total Depth of Well: 50
- 3. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'): 30
- 4. Screen Length (or length of open hole) in feet: 20
- 5. Screen or Slot Size: 0.010
- 6. Screen or Slot Material: PVC
- 7. Casing Material (PVC, steel, or other – specify): PVC
- 8. Casing Diameter (inches): 2
- 9. Static Water Level from top of casing at the time of installation (nearest 0.01'): 40
- 10. Yield (gallons per minute): N/A
- 11. Development Technique (specify): Submersible Pump
- 12. Length of Time well is developed/pumped or bailed (hours and minutes): .5

If you have any questions please don't hesitate contacting my office.

Sincerely,

Roy Trumper
Project Manager



BORING NO.:
MONITORING WELL NO.: MW1

JOB NO:	CLIENT: CALLER/MARCAL	PROJECT LOCATION:	841-847 Lexington Brklyn, NY
LOCATION OF WELL:	N/A	ELEVATION DATUM:	
DRILLING CONTRACTOR:	EMC	DATE STARTED:	4-2-15
DRILLING RIG TYPE:	GEOPROBE	DATE COMPLETED:	4-3-15
DRILLER:		TOTAL DEPTH:	68.5 ft. below grade (bg)
SAMPLER TYPE:	AUGER	WATER LEVEL:	41 ft. below grade (bg)

SAMPLE	PID(PPM)	RECOVERY (inches)	DEPTH (feet)	LITHOLOGY	DEPTH (feet)	COMMENTS
			0.0-0.5	Concrete		
			0.5-1.5	Fill Materials		
			1.5-12.0	Lt brown clay/sand		
			12-14	Reddish brown sandstone gravel		
			14-70	Hard pack silt/till		Steam from auger @ 49 ft



BORING NO.:
MONITORING WELL NO.: MW2

JOB NO:	CLIENT: CALLER/MARCAL	PROJECT LOCATION:	841-847 Lexington Brklyn, NY
LOCATION OF WELL:	N/A	ELEVATION DATUM:	
DRILLING CONTRACTOR:	EMC	DATE STARTED:	4-2-15
DRILLING RIG TYPE:	GEOPROBE	DATE COMPLETED:	4-3-15
DRILLER:		TOTAL DEPTH:	55 ft. below grade (bg)
SAMPLER TYPE:	AUGER	WATER LEVEL:	41 ft. below grade (bg)

SAMPLE	PID (PPM)	RECOVERY (inches)	DEPTH (feet)	LITHOLOGY	DEPTH (feet)	COMMENTS
			0.0-0.5	Concrete		
			0.5-1.5	Fill Materials		
			1.5-12.0	Lt brown clay/sand		
			12-14	Reddish brown sandstone gravel		
			14-55	Hard pack silt/till		Steam from auger @ 47 ft



BORING NO.:
MONITORING WELL NO.: MW3

JOB NO:	CLIENT: CALLER/MARCAL	PROJECT LOCATION:	841-847 Lexington Brklyn, NY
LOCATION OF WELL:	N/A	ELEVATION DATUM:	
DRILLING CONTRACTOR:	EMC		
DRILLING RIG TYPE:	GEOPROBE	DATE STARTED:	4-2-15
DRILLER:		DATE COMPLETED:	4-3-15
SAMPLER TYPE:	AUGER	TOTAL DEPTH:	55 ft. below grade (bg)
		WATER LEVEL:	41 ft. below grade (bg)

SAMPLE	PID(PPM)	RECOVERY (inches)	DEPTH (feet)	LITHOLOGY	DEPTH (feet)	COMMENTS
			0.0-0.5	Concrete		
			0.5-1.5	Fill Materials		
			1.5-12.0	Lt brown clay/sand		
			12-14	Reddish brown sandstone gravel		Refusal @ 15ft moved well location
			14-55	Hard pack silt/till		Steam from auger @ 45 ft



LEONARD J. STRANDBERG AND ASSOCIATES,
Consulting Engineers and Land Surveyors, P.C.

Job # 14-37701E
843 Lexington Avenue
Brooklyn, NY
Block: 1623, Lot: 73

MONITORING WELLS - LOCATIONS AND ELEVATIONS

DESC.	NORTHING	EASTING	ELEVATIONS	
			RIM	INNER PVC
MW-1	190907.28	1004534.51	51.24	52.80
MW-2	190931.45	1004507.66	51.36	56.11
MW-3	190947.85	1004559.27	51.32	54.05

Coordinates are referenced to NAD 83 (Long Island Zone)
Elevations are referenced to NAVD 88.

The image shows a handwritten signature in blue ink over a red circular professional seal. The seal contains the text "STATE OF NEW YORK" at the top and "SURVEYOR" at the bottom, with a central emblem. The signature is written in a cursive style.



ENVIRONMENTAL MANAGEMENT CONSULTANTS, INC
72 COBB STREET, ROCKAWAY, NJ 07866: 1-973-983-7733: 1-973-983-0056 Fax

Thursday, June 04, 2015

Terms Environmental Services, Inc
599 Springfield Avenue
Suite 2
Berkeley Heights, New Jersey 07922

Re: Monitoring Well Construction
843-847 Lexington Avenue
Brooklyn, NY 11221

Dear Peter Lakatos:

Environmental Management Consultants, Inc. (EMC) at 72 Cobb Street, Rockaway, NJ 07866 (973-983-7733) was hired to install three monitoring wells at the above noted property. A mark out was called in (150711906) and an auger rig was used to install the monitoring wells. Please find below the details of the wells that were installed.

MW-1

1. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	.25
2. Total Depth of Well :	68.5
3. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01')	45
4. Screen Length (or length of open hole) in feet:	23.5
5. Screen or Slot Size:	0.010
6. Screen or Slot Material:	PVC
7. Casing Material (PVC, steel, or other – specify):	PVC
8. Casing Diameter (inches):	2
9. Static Water Level from top of casing at the time of installation (nearest 0.01'):	40
10. Yield (gallons per minute):	N/A
11. Development Technique (specify):	Submersible Pump
12. Length of Time well is developed/pumped or bailed (hours and minutes):	.5

MW-2

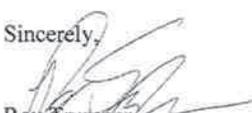
1. Distance from Top of Casing (cap off) to ground surface (nearest 0.01')	.25
2. Total Depth of Well:	55
3. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01')	30
4. Screen Length (or length of open hole) in feet:	25
5. Screen or Slot Size:	0.010
6. Screen or Slot Material:	PVC
7. Casing Material (PVC, steel, or other – specify):	PVC
8. Casing Diameter (inches):	2
9. Static Water Level from top of casing at the time of installation (nearest 0.01')	40
10. Yield (gallons per minute):	N/A
11. Development Technique (specify):	Submersible Pump
12. Length of Time well is developed/pumped or bailed (hours and minutes):	.5

MW-3

1. Distance from Top of Casing (cap off) to ground surface (nearest 0.01')	.25
2. Total Depth of Well:	50
3. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01')	30
4. Screen Length (or length of open hole) in feet:	20
5. Screen or Slot Size:	0.010
6. Screen or Slot Material:	PVC
7. Casing Material (PVC, steel, or other – specify):	PVC
8. Casing Diameter (inches):	2
9. Static Water Level from top of casing at the time of installation (nearest 0.01')	40
10. Yield (gallons per minute):	N/A
11. Development Technique (specify):	Submersible Pump
12. Length of Time well is developed/pumped or bailed (hours and minutes):	.5

If you have any questions please don't hesitate contacting my office.

Sincerely,


Roy Trumper
Project Manager

ATTACHMENT B
Groundwater Monitoring Well
Construction Log



BORING NO.:
MONITORING WELL NO.: MW1

JOB NO:	CLIENT: CALLER/MARCAL	PROJECT LOCATION:	841-847 Lexington Brklyn, NY
LOCATION OF WELL:	N/A	ELEVATION DATUM:	
DRILLING CONTRACTOR:	EMC	DATE STARTED:	4-2-15
DRILLING RIG TYPE:	GEOPROBE	DATE COMPLETED:	4-3-15
DRILLER:		TOTAL DEPTH:	68.5 ft. below grade (bg)
SAMPLER TYPE:	AUGER	WATER LEVEL:	41 ft. below grade (bg)

SAMPLE	PID(PPM)	RECOVERY (inches)	DEPTH (feet)	LITHOLOGY	DEPTH (feet)	COMMENTS
			0.0-.0.5	Concrete		
			0.5-1.5	Fill Materials		
			1.5-12.0	Lt brown clay/sand		
			12-14	Reddish brown sandstone gravel		
			14-70	Hard pack silt/till		Steam from auger @ 49 ft



BORING NO.:
MONITORING WELL NO.: MW2

JOB NO:	CLIENT: CALLER/MARCAL	PROJECT LOCATION:	841-847 Lexington Brklyn, NY
LOCATION OF WELL:	N/A	ELEVATION DATUM:	
DRILLING CONTRACTOR:	EMC	DATE STARTED:	4-2-15
DRILLING RIG TYPE:	GEOPROBE	DATE COMPLETED:	4-3-15
DRILLER:		TOTAL DEPTH:	55 ft. below grade (bg)
SAMPLER TYPE:	AUGER	WATER LEVEL:	41 ft. below grade (bg)

SAMPLE	PID (PPM)	RECOVERY (inches)	DEPTH (feet)	LITHOLOGY	DEPTH (feet)	COMMENTS
			0.0-0.5	Concrete		
			0.5-1.5	Fill Materials		
			1.5-12.0	Lt brown clay/sand		
			12-14	Reddish brown sandstone gravel		
			14-55	Hard pack silt/till		Steam from auger @ 47 ft



BORING NO.:
MONITORING WELL NO.: MW3

JOB NO:	CLIENT: CALLER/MARCAL	PROJECT LOCATION:	841-847 Lexington Brklyn, NY
LOCATION OF WELL:	N/A	ELEVATION DATUM:	
DRILLING CONTRACTOR:	EMC		
DRILLING RIG TYPE:	GEOPROBE	DATE STARTED:	4-2-15
DRILLER:		DATE COMPLETED:	4-3-15
SAMPLER TYPE:	AUGER	TOTAL DEPTH:	55 ft. below grade (bg)
		WATER LEVEL:	41 ft. below grade (bg)

SAMPLE	PID(PPM)	RECOVERY (inches)	DEPTH (feet)	LITHOLOGY	DEPTH (feet)	COMMENTS
			0.0-0.5	Concrete		
			0.5-1.5	Fill Materials		
			1.5-12.0	Lt brown clay/sand		
			12-14	Reddish brown sandstone gravel		Refusal @ 15ft moved well location
			14-55	Hard pack silt/till		Steam from auger @ 45 ft



LEONARD J. STRANDBERG AND ASSOCIATES,
Consulting Engineers and Land Surveyors, P.C.

Job # 14-37701E
843 Lexington Avenue
Brooklyn, NY
Block: 1623, Lot: 73

MONITORING WELLS - LOCATIONS AND ELEVATIONS

DESC.	NORTHING	EASTING	ELEVATIONS	
			RIM	INNER PVC
MW-1	190907.28	1004534.51	51.24	52.80
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Coordinates are referenced to NAD 83 (Long Island Zone)
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ENVIRONMENTAL MANAGEMENT CONSULTANTS, INC
72 COBB STREET, ROCKAWAY, NJ 07866: 1-973-983-7733: 1-973-983-0056 Fax

Thursday, June 04, 2015

Terms Environmental Services, Inc
599 Springfield Avenue
Suite 2
Berkeley Heights, New Jersey 07922

Re: Monitoring Well Construction
843-847 Lexington Avenue
Brooklyn, NY 11221

Dear Peter Lakatos:

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MW-1

1. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	.25
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5. Screen or Slot Size:	0.010
6. Screen or Slot Material:	PVC
7. Casing Material (PVC, steel, or other – specify):	PVC
8. Casing Diameter (inches):	2
9. Static Water Level from top of casing at the time of installation (nearest 0.01'):	40
10. Yield (gallons per minute):	N/A
11. Development Technique (specify):	Submersible Pump
12. Length of Time well is developed/pumped or bailed (hours and minutes):	.5

MW-2

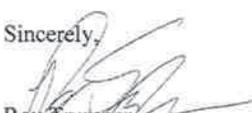
1. Distance from Top of Casing (cap off) to ground surface (nearest 0.01’):	.25
2. Total Depth of Well:	55
3. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01’)	30
4. Screen Length (or length of open hole) in feet:	25
5. Screen or Slot Size:	0.010
6. Screen or Slot Material:	PVC
7. Casing Material (PVC, steel, or other – specify):	PVC
8. Casing Diameter (inches):	2
9. Static Water Level from top of casing at the time of installation (nearest 0.01’):	40
10. Yield (gallons per minute):	N/A
11. Development Technique (specify):	Submersible Pump
12. Length of Time well is developed/pumped or bailed (hours and minutes):	.5

MW-3

1. Distance from Top of Casing (cap off) to ground surface (nearest 0.01’):	.25
2. Total Depth of Well:	50
3. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01’)	30
4. Screen Length (or length of open hole) in feet:	20
5. Screen or Slot Size:	0.010
6. Screen or Slot Material:	PVC
7. Casing Material (PVC, steel, or other – specify):	PVC
8. Casing Diameter (inches):	2
9. Static Water Level from top of casing at the time of installation (nearest 0.01’):	40
10. Yield (gallons per minute):	N/A
11. Development Technique (specify):	Submersible Pump
12. Length of Time well is developed/pumped or bailed (hours and minutes):	.5

If you have any questions please don't hesitate contacting my office.

Sincerely,


Roy Trumper
Project Manager

ATTACHMENT C
Groundwater Sampling Log

