7 SARATOGA AVENUE AND 1510-1524 BROADWAY

BROOKLYN, NEW YORK

Remedial Investigation Report

OER Project Number: 17TMP0332K.7

AKRF Project Number: 20568.03

Prepared for:

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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
NYSDOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Deborah Shapiro, 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 7 Saratoga Avenue and 1510-1524 Broadway, (17TMP0332K). 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.

Deborah Shapiro, QEP	5/23/2018	
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 and was conducted in accordance with the Phase II Scope of Work prepared by the New York City Office of Environmental Remediation (OER).

Site Location and Current Usage

The approximately 20,000-square feet (sf) Site is located at 7 Saratoga Avenue and 1510-1524 Broadway in the Bedford-Stuyvesant section of Brooklyn, New York (hereafter referred to as the "Site"). The Site is also identified as Block 1489, Lots 6 and 11 through 18 on the New York City Tax Map. Figure 1 shows the Site location. Currently, the Site is vacant and enclosed by construction fencing. A portion of the adjacent two-story building on the Site block encroaches onto the southern portion of the Site. A map of the Site boundary is shown in Figure 2.

The Site is bounded by Jefferson Avenue, followed by a transit system substation to the north; Broadway and elevated subway (J and Z lines) tracks, followed by commercial uses to the east; a brick and cinder block building and Hancock Street, followed by a medical center and residences to the south; and a brick building and Saratoga Avenue, followed by residences to the west. The proposed redevelopment will require excavation to approximately 12 feet below grade.

Summary of Proposed Redevelopment Plan

The proposed redevelopment consists of one five-story structure with a full cellar level. The cellar will contain parking and mechanical space. The first floor will contain commercial retail space, a residential lobby, residential recreational areas, and additional mechanical rooms. Residential units would occupy the second through fifth floors. An exterior courtyard is proposed on the second floor.

Summary of Past Uses of Site and Areas of Concern

Based on AKRF's March 2017 Phase I Environmental Site Assessment (ESA), the Site was historically developed with four, three-story offices and stores as early as 1888. Nine additional four-story commercial buildings were developed by 1908. By 1932, two additional buildings were located on the Site. The Site was occupied by various uses between approximately 1932 and 1962, including a paint and oils store, a dry cleaner, and unspecified manufacturing. The Site buildings were demolished between 1976 and 1987. The Site has remained undeveloped since 1987.

The following are considered Areas of Concern (AOCs) for the Site:

1. Sanborn maps identified a dry cleaner at 7 Saratoga Avenue from approximately 1949 to 1965.
2. Sanborn maps identified unspecified manufacturing at 1510 Broadway in 1962 and City Directories identified a watch and jewelry repair at 1510 Broadway in 1949, respectively.
3. City Directories identified an apparent cleaning and dying facility at 1520 Broadway in 1928.
4. City Directories identified a dress house/dress manufacturer at 1520 Broadway in 1934.
5. City Directories identified a printer at 1516 Broadway in 1934.
6. Historic uses in the surrounding area, including:
    a. Two closed New York SPILLS Database listings within 120 feet of the Site.

b. Syk Cleaners, located at 1561 Broadway, approximately 360 feet southeast of the Site, was identified as a small quantity generator (SQG) and historical large quantity generator (LQG) and conditionally exempt small quantity generator (CESQG) of spent halogenated solvents and tetrachloroethylene (PCE) from 1993 to 2016.

7. Historic fill may be present at the Site.

Summary of the Work Performed under the Remedial Investigation

On behalf of OER, AKRF performed the following scope of work:

1. Conducted a Site inspection to identify AOCs, existing utilities, and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 12 soil borings across the Site, and collected 24 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Collected three groundwater samples from groundwater monitoring wells installed during this RI for chemical analysis to evaluate groundwater quality; and
4. Installed 10 soil vapor probes at the Site and collected 10 soil vapor samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the Site ranges from approximately 44 to 46 feet.
2. Depth to groundwater measurements from the installed monitoring wells ranged from approximately 35.8 to 36.5 feet beneath the Site.
3. Based on USGS reports, groundwater likely flows in a northerly direction toward Newtown Creek, located approximately 2 miles northwest of the Site. However, actual groundwater flow direction can be affected by many factors, including subsurface openings or obstructions such as basements, utilities, current or past pumping of groundwater, past filling, bedrock geology, tidal fluctuations, and other factors beyond the scope of this assessment. Groundwater in Brooklyn is not used as a source of potable water.
4. Bedrock was not encountered during the investigation. Based on USGS reports, bedrock is expected to be between approximately 300 and 400 feet below grade surface.
5. The stratigraphy of the Site, from the surface down, consists of approximately 6 to 12 feet of historic fill material (sand with varying amounts of gravel, brick, coal ash, glass and wood), underlain by native sand with varying amounts of silt and gravel. Groundwater was observed in four borings advanced during this RI at depths ranging from 37.5 to 39 feet below grade.
6. Soil/fill samples results were compared to New York State Department of Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Use Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8. VOCs were detected in 20 of 24 soil samples, including low concentrations of acetone, chloroform, chloromethane, methyl chloride, 1,2-dimethylbenzene, and tetrachloroethene, below their respective UUSCOs and RRSCOs. Seven polycyclic aromatic hydrocarbons (PAHs), a class of SVOCs commonly associated with historic fill materials, combustion products such as coal, and/or petroleum, were detected in one or more samples above their respective UUSCOs and/or RRSCOs including: benzo(a)anthracene (maximum concentration of 41.8 mg/kg), benzo(a)pyrene (maximum concentration of 39.5 mg/kg), benzo(b)fluoranthene (maximum concentration of 54.5 mg/kg), benzo(k)fluoranthene (maximum concentration of 16 mg/kg), chrysene (maximum concentration of 39.6 mg/kg), dibenzo(a,h)anthracene (maximum concentration of 6.1 mg/kg), and indeno(1,2,3-cd)pyrene (maximum concentration of 18.1 mg/kg).

Metals, including barium, cadmium, lead, mercury, selenium, and/or zinc, were detected at concentrations ranging from 0.195 mg/kg to 1,790 mg/kg, above the UUSCOs in 23 of 24 soil samples. Of the UUSCO exceedances, metals were detected at concentrations above the RRSCOs in five samples; specifically, barium (maximum concentration of 1,790 mg/kg), cadmium (maximum concentration of 8.38 mg/kg), lead (maximum concentration of 1,500 mg/kg), and mercury (maximum concentration of 1.83 mg/kg). Elevated lead concentrations above 1,000 mg/kg can indicate a potential for hazardous lead levels, but Toxicity Characteristic Leaching Procedure (TCLP) lead analysis is required to confirm whether or not hazardous levels exist within the soil.

Select pesticides (4,4'-DDD, 4,4'-DDE, and 4,4'-DDT) were detected above their respective UUSCOs, but below their respective RRSCOs. PCBs were not detected above laboratory detection limits in any of the analyzed soil samples.

7. Groundwater sample analytical data was compared to NYSDEC Technical & Operational Series (TOGS) Ambient Water Quality Standards (AWQS). The VOC tetrachloroethylene (PCE) was detected in all three groundwater samples at concentrations between 18.9 micrograms per liter (µg/L) and 25.5 µg/L, above its AWQS of 5 µg/L. No other VOCs were detected above their respective AWQS in the analyzed groundwater samples. No SVOCs were detected above their respective AWQS in the analyzed groundwater samples.

   Up to 15 metals were detected in the unfiltered (total) analysis of the groundwater samples, and up to 12 metals were detected in the filtered (dissolved) analysis. Iron was detected above its AWQS in MW-11-20171211 (total) at a concentration of 644 µg/L. Sodium was detected above its AWQS in all three groundwater samples (both total and dissolved at maximum concentration of 118,000 µg/L).

   Pesticides and PCBs were not detected in any of the analyzed groundwater samples.

8. Twenty-six VOCs were detected in the 10 soil vapor samples. VOCs associated with petroleum [including benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), 1,2,4- and 1,3,5-trimethylbenzene, 2,2,4-trimethylpentane, 4-ethyltoluene, heptane, and n-hexane] were detected at concentrations between 2.9 micrograms per cubic meter (µg/m^3) and 315 µg/m^3. Chlorinated VOCs (including chloroform, methylene chloride, TCE, PCE, and trichlorofluoromethane) were detected at concentrations between 1.12 µg/m^3 and 277 µg/m^3. Other VOCs (including 2-butanone, acetone, and carbon disulfide) were detected at concentrations between 2.5 µg/m^3 and 118 µg/m^3. PCE was detected in SV-1-20171129 and SV-2-20171129 at concentrations of 277 and 43.4 µg/m^3, respectively. TCE was detected in SV-1-20171129 and SV-2-20171129 at concentrations of 10.2 and 8.06 µg/m^3, respectively.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

On behalf of the New York City Office of Environmental Remediation (OER) AKRF investigated the 20,000 square foot site located at 7 Saratoga Avenue and 1510-1524 Broadway in the Bedford Stuyvesant section of Brooklyn, New York (hereafter referred to as the "Site"). The Remedial Investigation (RI) was performed on November 27, 2017 through December 11, 2017 in accordance with the OER-approved Scope of Work dated April 2017. This Remedial Investigation Report (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 Site pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 7 Saratoga Avenue and 1510-1524 Broadway in the Bedford-Stuyvesant section of Brooklyn, New York and is identified as Block 1489, Lots 6 and 11 through 18 on the New York City Tax Map. Figure 1 shows the Site location. The Site is approximately 20,000-square feet and is bounded by Jefferson Avenue, followed by a transit system substation to the north; Broadway and elevated subway (J and Z lines) tracks, followed by commercial uses to the east; a brick and cinder block building and Hancock Street, followed by a medical center and residences to the south; and a brick building and Saratoga Avenue, followed by residences to the west. A map of the Site boundary is shown in Figure 2. Currently, the Site is vacant and enclosed by construction fencing. A portion of the adjacent two-story building encroaches onto the southern portion of the Site.

1.2 Proposed Redevelopment Plan

The proposed redevelopment consists of one five-story structure with a full cellar level. The cellar will contain parking and mechanical space. The first floor will contain commercial retail space, a residential lobby, residential recreational areas, and additional mechanical rooms. Residential units would occupy the second through fifth floors. An exterior courtyard is proposed on the second floor.

1.3 Description of Surrounding Property

The surrounding area is predominantly residential and commercial in use, with some institutional uses. Nearby sensitive receptors include day care centers and public schools. Figure 3 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses

Based on historic records, the Site was developed with four, three-story offices and stores as early as 1888. Between 1908 and 1932, 11 additional buildings were located on the Site including but not limited to: an apparent cleaning and dying facility at 1520 Broadway. The Site was occupied by various uses between approximately 1932 and 1962; including a dress house/dress manufacturer, a printer, watch and jewelry repair a paint and oils store, a dry cleaner, and unspecified manufacturing. The Site buildings were demolished between 1976 and 1987. The Site has remained undeveloped since 1987.

2.2 Previous Investigations

Phase I Environmental Site Assessment (ESA), MWBE Site C, 7 Saratoga Avenue and 1510-1524 Broadway, Brooklyn, NY, AKRF, Inc., March 2017

AKRF, Inc. (AKRF) prepared a Phase I ESA for the Site in March 2017 in accordance with ASTM E1527-13. The Phase I ESA included the findings of a Site reconnaissance, and a review and evaluation of available historical records and regulatory database listings.

The Phase I ESA revealed evidence of on-site Recognized Environmental Conditions (RECs), including:

- Historical Sanborn maps and City Directories indicated that a dry cleaner operated at 7 Saratoga Avenue from approximately 1949 to 1965. Additionally, Sanborn maps identified unspecified manufacturing at 1510 Broadway in 1962 and City Directories identified an apparent cleaning and dying facility at 1520 Broadway in 1928, a dress house/dress manufacturer at 1520 Broadway in 1934, a printer at 1516 Broadway in 1934, and watch and jewelry repair at 1510 Broadway in 1949.
- Historical Sanborn maps and electronic Buildings Department (DOB) records indicated that the Property was previously developed with commercial and residential structures. The buildings dated to before 1888 and were demolished by 1985. Buried demolition debris associated with the former buildings may be present at the Site, as could include historical fill of unknown origin and possibly abandoned underground storage tanks (USTs). Electronic DOB records included an oil burner application for 1512 Broadway.
- Industrial, automotive, and dry cleaning uses were also noted in the surrounding area, including garages with gasoline tanks south/west-adjacent to the Site on the 1932 map and approximately 75 feet south of the Site on maps from 1932 to 1962. Auto repair was shown with one of the garages 75 feet south of the Site and approximately 195 feet southwest of the Site on the 1962 map. Potential auto repair was identified in the City Directories on the east-adjacent block from 1965 to 1985. Substations were identified on the south- and northwest-adjacent blocks from 1908 to 2006 and 1976 to 2007 maps, respectively. A chemical and bleach bottling facility was noted approximately 250 feet northwest of the Site on maps from 1951 and 1962, followed by a paint manufacturer from 1965 to 2007. A dry cleaner was shown on Broadway, approximately 250 feet south-southwest of the Property on maps from 1965 to 1979. Nearby Petroleum Bulk Storage (PBS), Spills, and Resource Conservation and Recovery Act (RCRA) listings with limited potential to have affect the Site subsurface were identified in the regulatory database search.

Other On-site Environmental Concern (items outside the scope of ASTM E1527-13 such as asbestos containing material [ACM], lead-based paint [LBP] and/or polychlorinated biphenyls [PCBs] in building materials or fill/debris)

- Potential fill materials and/or demolition debris beneath the Site could contain ACM, LBP, and/or PCBs.

The Phase I ESA is included as Appendix A.

2.3 Site Inspection

Visual inspection of the Property was performed on January 11, 2017 by Ms. Margo Davis of AKRF. Mr. James Edgeworth III of New York City Housing Preservation and Development (HPD) provided access to the Site. At the time of the inspection, the weather was mostly sunny and approximately 45 ºF with good visibility.

Sparse overgrown vegetation, including trees, grass, shrubs, and weeds, was noted at the Site, primarily around the perimeter. Non-vegetated portions of the Site were gravel and sand covered. Some stockpiles of gravel were noted on the Site. Concrete blocks were observed on the southern portion of the Site. According to Site personnel, the blocks were left on-site by a previous occupant using the area for construction staging and storage. Site personnel indicated that removal of the materials was in the process of being coordinated. Miscellaneous trash was noted across the Site.

At the time of the reconnaissance, contractors were conducting work at the Site. Four small (less than 1 gallon) containers of motor oil were observed at the Site, but appeared to be associated with the on-site work. No other debris associated with petroleum or chemical use or storage was observed. The on-site workers were using a roll-off dumpster on the northwestern portion of the Site. A metal shed and a portable toilet was noted on the northwestern perimeter of the Site. Neighboring properties were also viewed, but only from public rights-of-way.

2.4 Areas of Concern

The following are considered Areas of Concern (AOCs) for the Site:

1. Sanborn maps identified a dry cleaner at 7 Saratoga Avenue from approximately 1949 to 1965.
2. Sanborn maps identified unspecified manufacturing at 1510 Broadway in 1962 and City Directories identified a watch and jewelry repair at 1510 Broadway in 1949, respectively.
3. City Directories identified an apparent cleaning and dying facility at 1520 Broadway in 1928.
4. City Directories identified a dress house/dress manufacturer at 1520 Broadway in 1934.
5. City Directories identified a printer at 1516 Broadway in 1934.
6. Historic uses in the surrounding area, including:
    a. Two closed New York SPILLS Database listings within 120 feet of the Site.
    b. Syk Cleaners, located at 1561 Broadway, approximately 360 feet southeast of the Site, was identified as a small quantity generator (SQG) and historical large quantity generator (LQG) and conditionally exempt small quantity generator (CESQG) of spent halogenated solvents and tetrachloroethylene (PCE) from 1993 to 2016.
7. Historic fill may be present at the Site.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Professional (QEP) responsible for preparation of this RIR is Ms. Deborah Shapiro, QEP.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and Occupational Safety and Health Administration (OSHA) worker safety requirements and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements. The work described in this RIR was also performed in accordance with a site-specific Health and Safety Plan (HASP).

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations. Investigation derived waste generated was drummed and stored on-site during the RI.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

On behalf of OER, AKRF performed the following scope of work:

1. Conducted a Site inspection to identify AOCs, existing utilities, and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 12 soil borings across the Site, and collected 24 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Collected three groundwater samples from groundwater monitoring wells installed during this RI for chemical analysis to evaluate groundwater quality; and
4. Installed 10 soil vapor probes at the Site and collected 10 soil vapor samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical survey was conducted by Hager-Richter Geoscience, Inc. (Hager-Richter) on November 27, 2017. No utilities or major anomalies were detected during the geophysical survey. Prior to mobilization for drilling, AKRF obtained a Metropolitan Transportation Authority (MTA) approval because the property is designated "MTA restricted." MTA jurisdiction applies when construction is within 200 feet of a transit line or other railway right-of-way located on the first floor and/or below. Hager-Richter used the AKRF submitted MTA approval to mark out and clear the proposed boring locations. No obstructions to the borings were detected.

4.2 Borings and Monitoring Wells

4.2.1 Drilling and Soil Logging

A track-mounted Geoprobe® Direct-Push Probe (DPP) was used by Cascade Drilling LP (Cascade) to advance 12 soil borings (SB-1 through SB-12) at the locations shown on Figure 2. Soil borings extended to depths ranging between 15 and 50 feet below grade. SB-1, SB-4, SB-6, and SB-11, which were later converted into permanent groundwater monitoring wells, were advanced 50 feet. Soils borings SB-2, SB-3, SB-5, SB-7 through SB-10, and SB-12 were advanced to 15 feet.

At each boring, AKRF field personnel prepared NYSDEC DER-10 compliant boring logs using the modified Burmeister soil classification system. Prior to collecting samples, recovered soil was screened for volatile organic compounds (VOCs) using a photoionization detector (PID) with a 10.6eV lamp and evaluated for visual and olfactory evidence of contamination.

The stratigraphy of the Site, from the surface down, consisted of approximately 6 to 12 feet of fill material (sand with varying amounts of gravel, brick, coal ash, glass and wood), underlain by native sand with varying amounts of silt and gravel. Groundwater was encountered in four borings advanced during this RI at depths ranging from approximately 37.5 to 39 feet below grade. Bedrock was not encountered.

Boring logs are included in Appendix B. A map showing the locations of the soil borings is included as Figure 2.

4.2.2 Groundwater Monitoring Well Construction

Three of the soil borings were completed as 2-inch diameter permanent groundwater monitoring wells (MW-1, MW-4, and MW-11) as shown on Figure 2. The wells were constructed with 15 feet of 0.020-inch slotted polyvinyl chloride (PVC) pre-pack well screen installed approximately 10 feet into the observed water table with solid PVC riser

to the ground surface. The annular space around the well was included in the pre-pack and consisted of No. 2 sand from 50 to 33 feet below grade surface, followed by 2 feet of bentonite seal, followed 30 feet of No. 00 sand, and finally, 1 foot of grout. The wells were finished with a locking j-plug and flush-mounted protective locking well cover.

Following installation, each well was developed via pumping and surging with a Waterra pump affixed with dedicated tubing to remove any accumulated fines and establish a hydraulic connection with the surrounding aquifer. Purge water was monitored with a Horiba U-52 water quality monitor. Development continued until turbidity within the well was less than 50 nephelometric turbidity units (NTUs) for three successive readings and until water quality indicators have stabilized to within 10% for pH, temperature, oxidation reduction potential (ORP), dissolved oxygen, and specific conductivity for three successive readings. Purge water was containerized in properly labeled Department of Transportation (DOT)-approved 55-gallon drums for off-site disposal at a permitted facility. The disposal manifest is provided in Appendix C. Groundwater monitoring well development and construction logs are provided in Appendix B.

4.2.3 Water Level Measurement

The depth to groundwater was measured within each monitoring well using a Solinst oil/water interface probe. Depth to groundwater beneath the Site ranged from approximately 35.8 feet below the top of casing (MW-11) in the southeastern portion of the Site to 36.5 feet below the top of casing (MW-1) in the northwestern portion of the Site.

4.2.4 Soil Vapor

A total of 10 soil vapor sampling points (SV-1 through SV-5 and SV-7 through SV-11) were installed at the Site, at the locations shown on Figure 2. The sampling points were installed by Cascade using a track-mounted, Geoprobe® mobile drilling rig. The 0.75-inch diameter probe consisted of an expendable 6-inch long stainless steel screened drive point, which was installed to a depth of approximately 5 feet below surface grade. Dedicated Teflon tubing with threaded fittings was connected to the probe. The boring was backfilled with clean silica sand and a layer of hydrated bentonite around the tubing to grade to provide a seal ensuring the collection of a representative sample and prevent short-circuiting of ambient air into the vapor sampling point.

Prior to sampling, each soil vapor point was purged of three sample volumes using a GilAir Plus air pump. During purging, an inverted one-gallon bucket was placed over the sampling point and helium gas was introduced through a small hole in the bucket to saturate the atmosphere around the sample port with helium gas. The purged vapors were collected into a Tedlar bag and monitored using a portable helium detector to check for short-circuiting of ambient air into the vapor sampling point and to verify the adequacy of the bentonite seal. Helium concentrations of less than 10 percent were considered sufficient to verify a tight seal. All soil vapor points passed the seal integrity tests with helium readings of 0.0 part per million (ppm). Purged vapors were also field-screened for organic vapors using a PID and concentrations ranged from 2.0 parts per million to 4.5 ppm. After purging, the tubing was connected to a laboratory-supplied 6-liter SUMMA canister equipped with a flow regulator. One soil vapor sample was paired with 6-liter SUMMA canisters for collection of an ambient air sample. The samples were each collected over a two-hour period, and the samples were analyzed for VOCs by EPA Method TO-15. The soil vapor and ambient air quality sampling logs are included in Appendix B.

4.3 Sample Collection and Chemical Analysis

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

4.3.1 Soil Sampling

During this RI, 24 soil samples were collected for chemical analysis from the 12 soil borings indicated on Figure 2. In each of the 12 borings, a surface soil sample was collected from the 0 to 2 foot below grade interval. At soil borings SB-2 through SB-5, SB-8 and SB-12, a second sample was collected from 10 to 12 feet below grade. At soil borings SB-1, SB-6, SB-7, SB- 9, SB-10 and SB-11, a second sample was collected from the 2 foot interval at the bottom of the fill horizon (approximately 4 to 12 feet below grade), immediately above the underlying native material. No evidence of contamination (e.g., odors, staining, or elevated PID readings) were detected in the soil borings advanced during the RI.

Soil samples were placed in laboratory-supplied containers in ice-filled coolers, and submitted to the laboratory via courier with appropriate chain-of-custody documentation. Soil samples were submitted to Chemtech Consulting (Chemtech) of Mountainside, New Jersey, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory for analysis of VOCs by U.S. Environmental Protection Agency (EPA) Method 8260, semivolatile organic compounds (SVOCs) by EPA Method 8270, Target Analyte List (TAL) metals (6000/7000 series), pesticides by EPA Method 8081, and polychlorinated biphenyls (PCBs) by EPA Method 8082. For quality assurance/quality control (QA/QC) purposes, one aqueous trip blank, one blind duplicate, one matrix spike/matrix spike duplicate (MS/MSD), and one field blank were collected and submitted for laboratory analysis. The QA/QC samples were analyzed for the aforementioned parameters, with the exception of the trip blank, which was only analyzed for VOCs.

Data on soil sample collection, including chemical analyses, dates of collection, and sample depths, is reported in Tables 1 through 5. Laboratory and analytical methods are discussed in Section 4.3.4 below.

4.3.2 Groundwater Sampling

During this RI, three groundwater samples were collected for chemical analysis from MW-1, MW-4, and MW-11 as shown on Figure 2. Groundwater samples were collected using low-flow sampling techniques approximately one week after development.

Groundwater samples were placed in laboratory-supplied containers in ice-filled coolers, and submitted to the laboratory via courier with appropriate chain-of-custody documentation. Groundwater samples were submitted to Chemtech for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, TAL metals (6000/7000 series), pesticides by EPA Method 8081, and PCBs by EPA Method 8082. The groundwater analyses for metals were conducted on both filtered (total) and unfiltered (dissolved) samples. For QA/QC purposes, one aqueous trip blank, one blind duplicate, one MS/MSD, and one field blank were submitted with the groundwater samples. The

QA/QC samples were analyzed for the aforementioned parameters with the exception of the trip blank, which was only analyzed for VOCs.

Groundwater sample collection data is reported in Tables 6 through 10. Laboratory and analytical methods are discussed in Section 4.3.4 below.

4.3.3 Soil Vapor Sampling

Ten soil vapor probes were installed and 10 soil vapor samples were collected for chemical analysis from the locations shown on Figure 2. Soil vapor sampling probes were installed at approximately 5 feet below grade using the track-mounted Geoprobe® DPP by advancing a 0.75-inch diameter hollow probe rod fitted with an expendable 6-inch long stainless steel screen drive point. The hollow probe rod was then removed and the boring backfilled with clean silica sand around the screen. Hydrated bentonite was then used to seal up to the ground surface.

Prior to collection, each sampling point was purged of three implant volumes at a flow rate of approximately 0.2 liters per minute. During purging, an inverted five-gallon bucket was placed over the sampling point and helium gas was introduced through a small hole in the bucket to saturate the atmosphere around the sample port with helium gas. Purged vapors were collected in a Tedlar bag and field-screened for organic vapors using a PID. The purged air was also analyzed with a portable helium detector to check for short-circuiting of ambient air into the vapor sampling point. All soil vapor points passed the seal integrity tests with helium readings below 10%. PID readings were detected at all soil vapor locations and ranged from 2.0 parts per million (ppm) to 4.5 ppm.

After purging, each probe was connected via Teflon-lined polyethylene tubing to a laboratory-supplied batch-certified clean 6-liter SUMMA canister equipped with a flow regulator set to collect a sample over a two-hour sampling period. Immediately after opening the flow control valve, the initial SUMMA canister vacuum (inches of mercury) was noted. After approximately two hours, the flow controller valve was closed, the final vacuum noted, and the canister placed in a shipping carton for delivery to Alpha for analysis of VOCs by EPA Method TO-15. The flow rate during sample collection did not exceed 0.2 liters/minute. Each SUMMA canister was labeled to identify the sample identification, date, time, and vacuum readings. The identification numbers for the SUMMA canisters and flow controllers were noted on the chain-of-custody documentation and the samples were transported by courier directly to Chemtech.

Soil vapor sample collection data is reported in Table 11. Soil vapor sampling logs are included in Appendix B. Methodologies used for soil vapor assessment conform to the updated version of the NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006.

4.3.4 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 Deborah Shapiro, QEP.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Chemtech Consulting of Mountainside, New Jersey.
Third-Party Data Validator	L.A.B. Validation Corp.
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); and • PCBs by EPA Method 8082A (rev. 2000). Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); and • PCBs by EPA Method 8082A (rev. 2000). Soil vapor analytical methods: • VOCs by EPA Method TO-15

4.3.5 Results of Chemical Analyses

Laboratory data for soil, groundwater, and soil vapor samples are summarized in Tables 1 through 5, 6 through 10, and 11, respectively. Laboratory data deliverables for soil and groundwater samples evaluated in this RIR are provided in digital form in Appendix D. Laboratory data deliverables for soil vapor samples evaluated in this RIR are provided in digital form in Appendix E.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

5.1.1 Stratigraphy

The stratigraphy of the Site, from the surface down, consists of approximately 4 to 12 feet of fill material (sand with varying amounts of gravel, brick, coal ash, glass and wood), underlain by native sand with varying amounts of silt and gravel. Groundwater was encountered in four borings advanced during this RI at depths ranging from 35.8 to 36.5 feet below grade. Bedrock was not encountered.

5.1.2 Hydrogeology

Groundwater was encountered in four borings (SB-1, SB-4, SB-6, and SB-11) installed during this RI. Depth to groundwater was measured from the three monitoring wells (MW-1, MW-4, and MW-11) and varied from 35.8 feet below grade (MW-11) in the southeastern portion of the Site to 36.5 feet below grade (MW-1) in the northwestern portion of the Site. According to USGS mapping, groundwater likely flows in a northerly direction toward Newtown Creek, located approximately 2 miles northwest of the Site. However, actual groundwater flow direction can be affected by many factors, including subsurface openings or obstructions such as basements, utilities, current or past pumping of groundwater, past filling, and other factors beyond the scope of this assessment.

5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. Soil sample analytical results were compared to NYSDEC 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs). A summary table of data for chemical analyses performed on soil samples is included in Tables 1 through 5. Figure 4 shows the locations and concentrations of soil samples that exceed the NYSDEC UUSCOs and RRSCOs.

5.2.1 Volatile Organic Compounds

Low concentrations of the VOCs acetone (max 0.0265 ppm), chloroform (max of 0.0026 ppm), ethylbenzene (max 0.00053 ppm), m,p-xylene (max 0.0023 ppm), methylene chloride (max 0.0049 ppm), o-xylene (max 0.00075 ppm), PCE (max 0.005 ppm), trichlorofluoromethane (max 0.0006 ppm), and total xylenes (max 0.0031 ppm) were detected in 19 of the soil samples. No VOCs were detected above their respective UUSCOs or RRSCOs in the analyzed soil samples.

Soil analytical results for VOCs are presented in Table 1.

5.2.2 Semivolatile Organic Compounds

Seven polycyclic aromatic hydrocarbons (PAHs), a class of SVOCs commonly associated with fill materials, combustion products such as coal, and/or petroleum, were detected in up to 16 samples at concentrations above their respective UUSCOs including: benzo(a)anthracene (max 41.8 ppm), benzo(a)pyrene, (max 39.5 ppm) benzo(b)fluoranthene (max 54.5 ppm), benzo(k)fluoranthene (max 16 ppm), chrysene (max 39.6 ppm), dibenzo(a,h)anthracene (max 6.1 ppm), and indeno(1,2,3-cd)pyrene (max 18.5 ppm). Concentrations ranged from 0.37 to 54.5 milligrams per kilogram (mg/kg).

Several PAHs also exceeded their respective RRSCOs in 17 soil samples. Specifically, benzo(a)anthracene was detected above its RRSCO of 1 mg/kg in 13 samples at concentrations ranging from 1.2 to 41.8 mg/kg. Benzo(a)pyrene was detected above its RRSCO of 1 mg/kg in 12 samples at concentrations ranging from 1.1 to 39.5 mg/kg. Benzo(b)fluoranthene was detected above its RRSCO of 1 mg/kg in 16 samples at concentrations ranging from 1.1 to 54.5 mg/kg. Benzo(k)fluoranthene was detected above its RRSCO of 3.9 mg/kg in sample SB-3(0-2)-20171127 at a concentration of 16 mg/kg. Chrysene was detected above its RRSCO of 3.9 mg/kg in five samples at concentrations ranging from 4.1 to 39.6 mg/kg. Dibenzo(a,h)anthracene was detected above its RRSCO of 0.33 mg/kg in five samples at concentrations ranging from 0.45 to 6.1 mg/kg. Indeno(1,2,3-cd)pyrene was detected above its RRSCO of 0.5 mg/kg in 16 samples at concentrations ranging from 0.52 to 18.1 mg/kg.

Soil analytical results for SVOCs are presented in Table 2.

5.2.3 Metals

Metals, including barium, cadmium, lead, mercury, selenium, and/or zinc, were detected in 23 soil samples at concentrations ranging from 0.195 mg/kg of mercury to 1,790 mg/kg of lead, above their respective UUSCOs.

Of the UUSCO exceedances, metals were detected in five samples at concentrations above their respective RRSCOs. Barium was detected above its RRSCO of 400 mg/kg, in soil samples SB-6(5-7)-20171128 and SB-8(0-2)-20171127 at concentrations of 542 mg/kg and 1,790 mg/kg, respectively. Cadmium was detected above its RRSCO of 4.3 mg/kg in soil sample SB-9(0-2)-20171127 at a concentration of 8.38 mg/kg. Lead was detected above its RRSCO of 400 mg/kg in four samples [SB-8(0-2)-20171127, SB-9(0-2)-20171127, SB-10(0-2)-20171127, and SB-12(0-2)-20171127] at concentrations ranging from 595 to 1,500 mg/kg. Mercury was detected above its RRSCO of 0.81 mg/kg in soil sample SB-6(5-7)-20171128 at a concentration of 1.83 mg/kg.

No other metals exceeded their respective UUSCOs or RRSCOs in the analyzed soil samples. Several metals concentrations were identified as "J" values, indicating estimated concentrations.

Soil analytical results for metals are presented in Table 3.

5.2.4 Pesticides and PCBs

Select pesticides were detected above their respective UUSCOs, but below their respective RRSCOs. The pesticide 4,4'-DDD was detected above its UUSCO of 0.0033 mg/kg in soil sample SB-7(0-2)-20171127 at a concentration of 0.0111 mg/kg and sample SB-12(10-12)-20171127. 4,4'-DDE was detected above its UUSCO of 0.0033 mg/kg in eight soil samples [SB-5(0-2)-20171127, SB-6(0-2)-20171128, SB-6(5-7)-20171128, SB-7(0-2)-20171127, SB-8(0-2)-20171127, SB-9(0-2)-20171127, SB-11(6-8)-20171129, and SB-12(0-2)-20171127] at concentrations ranging from 0.0038 mg/kg to 0.0318 mg/kg. 4,4'-DDT was detected above its UUSCO of 0.0033 mg/kg in 11 soil samples [SB-3(10-12)-20171127, SB-5(0-2)-20171127, SB-6(0-2)-20171128, SB-6(5-7)-20171128, SB-7(0-2)-20171127, SB-8(0-2)-20171127, SB-9(0-2)-20171127, SB-10(0-2)-20171127, SB-11(6-8)-20171129, SB-12(0-2)-20171127 and SB-12(10-12)-20171127] at concentrations ranging from 0.0058 to 0.11 mg/kg.

PCBs were detected in sample SB-12(0-2)-20171127 at concentration of 0.87 mg/kg, above the UUSCO of 0.1 mg/kg. PCBs were not detected above laboratory reporting limits in any other samples.

Soil analytical results for pesticides and PCBs are presented in Tables 4 and 5, respectively.

5.3 Groundwater Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. Groundwater sample analytical data was compared to NYSDEC Technical & Operational Series (TOGS) Ambient Water Quality Standards (AWQS). A summary table of data for chemical analyses performed on groundwater samples is included in Tables 6 through 10. Figure 5 shows the locations and concentrations of groundwater samples that exceed the AWQS.

5.3.1 Volatile Organic Compounds

PCE was detected in all three groundwater samples and blind duplicate sample MW-X-20171211 at concentrations between 18.9 micrograms per liter (µg/L) and 25.5 µg/L above its AWQS of 5 µg/L. No other VOCs were detected above their respective AWQS in the analyzed groundwater samples.

Low levels of other VOCs, including acetone (max 2.6 µg/L), chloroform (max 1.7 µg/L), and trichloroethylene (TCE) (max 0.77 µg/L), were detected in the groundwater samples at concentrations below their respective AWQS. No VOCs were detected in the aqueous trip blank samples. Several VOC concentrations were identified as "J" values, indicating estimated concentrations.

Groundwater analytical results for VOCs are presented in Table 6.

5.3.2 Semivolatile Organic Compounds

SVOCs were not detected above laboratory reporting limits in the groundwater samples.

Groundwater analytical results for SVOCs are presented in Table 7.

5.3.3 Metals

Up to 15 metals were detected in the three groundwater samples in the unfiltered (total) analysis. Iron was detected above its AWQS of 300 µg/L in MW-11-20171211 at a concentration of 644 µg/L. Sodium was detected above its AWQS of 20,000 µg/L in all three groundwater samples at concentrations ranging from 59,300 µg/L to 118,000 µg/L.

Up to 12 metals were detected in the groundwater samples in the filtered (dissolved) analysis. Metals concentrations in the filtered samples were mostly reduced when compared to those of the unfiltered analysis; however, sodium was still detected above its respective AWQS in all three samples at concentrations ranging from 57,100 µg/L to 114,000 µg/L.

Groundwater analytical results for metals are presented in Table 8.

5.3.4 Pesticides and PCBs

Pesticides and PCBs were not detected above laboratory detection limits in the groundwater samples.

Groundwater analytical results for pesticides and PCBs are presented in Tables 9 and 10, respectively.

5.4 Soil Vapor Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 11. Figure 6 shows the locations and concentrations of VOCs

detections in soil vapor. A complete copy of the laboratory report for soil vapor samples is provided in Appendix E.

A review of the soil vapor sample analytical results identified 26 VOCs detected in the 10 soil vapor samples. VOCs associated with petroleum [including benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), 1,2,4- and 1,3,5-trimethylbenzene, 2,2,4-trimethylpentane, 4-ethyltoluene, heptane, and n-hexane] were detected at concentrations between 2.9 micrograms per cubic meter ($\mu g/m^3$) and 315 $\mu g/m^3$. Chlorinated VOCs (including chloroform, methylene chloride, TCE, PCE, and trichlorofluoromethane) were detected at concentrations between 1.12 $\mu g/m^3$ and 277 $\mu g/m^3$. Other VOCs (including 2-butanone, acetone, and carbon disulfide) were detected at concentrations between 2.5 $\mu g/m^3$ and 118 $\mu g/m^3$. PCE was detected in all 10 soil vapor samples at concentrations ranging from 1.9 to 277 $\mu g/m^3$. TCE was detected in SV-1-20171129 SV-2-20171129, and SV-8-20171129 at concentrations of 10.2 $\mu g/m^3$, 8.06 $\mu g/m^3$, and 1.61 $\mu g/m^3$, respectively.

5.5 Prior Activity

Based on the elevated lead concentrations detected in soil samples, there is a potential for hazardous waste to be generated at the Site. Waste characterization soil sampling will be performed to confirm or deny the presence of hazardous waste soil prior to the start of construction.

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

5.6 Quality Assurance/Quality Control (QA/QC) Sampling

QA/QC procedures were used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analyses for this investigation. Field QA/QC procedures were used (1) to document that samples are representative of actual conditions at the Site and (2) to identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses were used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix or by laboratory techniques that may have introduced systematic or random errors to the analytical process.

QA/QC samples were analyzed by Chemtech, an ELAP-certified laboratory. The third-party data validation was performed by L.A.B. Validation Corp. and reported in DUSRs for soil, soil vapor, and groundwater. DUSRs for soil, groundwater, and soil vapor samples are provided in Appendix F. QA/QC sampling consisted of the following:

<u>Soil</u>

- One blind duplicate [SB-X (0-2) 20171127];
- One MS/MSD sample [SB-12 (0-2) MS/MSD 20171127];
- One field blank (FB-1 20171128); and
- One aqueous trip blank sample (TB-20171127).

<u>Groundwater</u>

- One blind duplicate (MW-X-20171211);
- One MS/MSD sample (MW-1-MS/MSD-20171211);
- One field blank sample (FB-1-20171211); and
- One aqueous trip blank sample (TB-1-20171211).

QA/QC samples were submitted with the collected soil and groundwater samples. The field blanks, blind duplicates, and MS/MSD samples were analyzed for the same analyte list as the accompanying soil and groundwater samples. The trip blank samples were submitted for laboratory analysis for VOCs by EPA Method 8260 only.

Duplicate samples for soil had relative percent differences; however, soil samples are expected to have a greater variance due to variable contaminant properties in soil, particularly in non-homogenous material, which was identified in the soil borings.

Soil

- The soil DUSR identified additional qualifiers for specific compounds for specific samples. These qualifiers have been added to the data summary tables provided as Tables 4 through 8. The data sets were determined to be acceptable for use with the additional data qualifiers. The changes included the addition of a "J" qualifier indicating that the contaminant detections in the samples were considered estimated values. In few cases, a "U" qualifier was added, indicating that the analyte was analyzed for, but was not detected above the reported sample quantitation limit. In several cases, a "UJ" qualifier was added, indicating the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Additions of "JL" and "JL" qualifiers were also added to certain samples where the result was an estimated quantity that may be biased high or biased low, respectively. In cases of diluted analyses, the initial samples were qualified "R", indicating the data is unusable.
- The matrix spike analysis of sample SB-12(0-2)20171127 resulted in low antimony recovery (25%) in both the MS and MSD. As such, all antimony results Sample Delivery Group (SDG) 16610 have been qualified "R."
- Methylene chloride and acetone were detected in many of the field samples. Although the laboratory reported presence could not be negated due to contamination, the DUSR reported that the detections are potentially due to lab contamination.
- The initial calibration and %RSD (Percent Relative Standard Deviation) were within acceptable limits for all reported compounds except 1,4-dioxane in sample SB-1(0-2)20181128. Results for this compounds were qualified "UJ." Cyclohexane, 1,1,2,2-tetrachlroroethane, and 1,2,3-trichlorobenzene were also qualified "UJ" in sample FB-1-20171128.
- Samples SB-5(10-12)20171127 and SB-6(5-7)20171128 resulted in low internal response for all Internal Standard (IS) compounds. As such, methylene chloride was qualified "JL" and non-detects were qualified "UJ."
- Several soil samples were reanalyzed at a higher dilution ratio in cases where target analyte concentrations exceeded the instrument's linear calibration range. The value over range have been qualified "R" and the diluted samples have been qualified "D."

The DUSR concluded that the overall assessment of the data generated were of acceptable quality. Chemtech notated that their New Jersey Department of Environmental Protection (NJDEP) Certification status for manganese in soil was in the "applied" status at the time of sample analysis. Data was not qualified for manganese based on this deviation. Results for the remaining analyses are usable at the revised qualifiers.

Groundwater

- The groundwater DUSR identified additional qualifiers for specific compounds for specific samples. These qualifiers have been added to the data summary tables provided as Tables 9

and 10. The changes included the additions "JH" and "UJ", qualifiers to select compounds in various groundwater samples.

- The initial and continuing calibrations and %D (Percent Difference) were within acceptable limits (20%) for VOCs, except for 1,2,4,5-tetrachlorobenzene (43.4%), 2,4-dinitrophenol (33.6%), and hexachlorocyclopentadiene (34.6%). All samples have been qualified "UJ."
- Aqueous spike recoveries between 126% and 200% were qualified "JH" for chromium, iron, and nickel.

The groundwater DUSR indicated the data generated were of acceptable quality. All samples were analyzed undiluted. Results for the analysis are usable with the revised qualifiers.

Soil Vapor

- The groundwater DUSR identified additional qualifiers for specific compounds for specific samples. These qualifiers have been added to the data summary tables provided as Table 11. The changes included the additions "D", "UJ", "JL", qualifiers to select compounds in various soil vapor samples.
- Secondary diluted reanalysis was performed for acetone and/or toluene in cases where the raw concentrations exceeded the instrument's linear calibration range. Results for these compounds have been qualified "D."
- Analytes with higher internal standard responses, outside of the calibration range, were detected in several samples for up to 26 compounds. These results have been qualified "UJ" or "JL."

The soil vapor DUSR indicated the data generated were of acceptable quality and the data validator agreed with the raw data provided in the final laboratory report.

FIGURES

TABLES

APPENDIX A
PHASE I ESA

APPENDIX B
FIELD SAMPLING LOGS

APPENDIX C

INVESTIGATION DERIVED WASTE DISPOSAL MANIFEST

APPENDIX D

LABORATORY DATA DELIVERABLES FOR SOIL AND GROUNDWATER

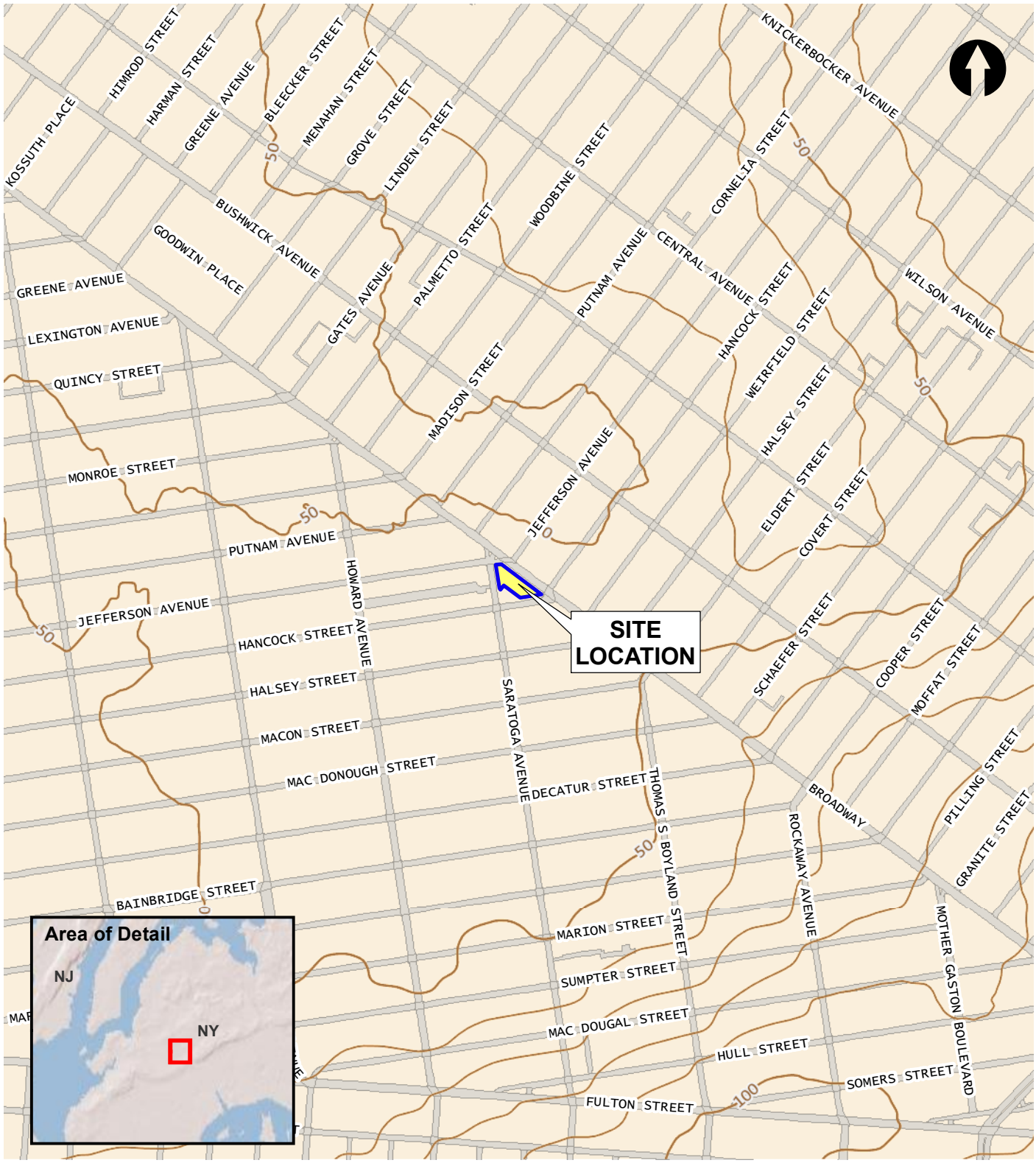
APPENDIX E

LABORATORY DATA DELIVERABLES FOR SOIL VAPOR

APPENDIX F

DUSRS FOR SOIL, GROUNDWATER, AND SOIL VAPOR SAMPLES

FIGURES



Map Source: USGS Topo base map service from The National Map

0 800 1,600

SCALE IN FEET

AKRF

440 Park Avenue South, New York, NY 10016

7 Saratoga Avenue and 1510-1524 Broadway

Brooklyn, New York

SITE LOCATION

DATE **1/10/2018**

PROJECT NO. **20568.03**

FIGURE **1**

Historical Dry Cleaner

Historical Watch and Jewelry Repair

Historical Printer

Historical Paints and Oils Store

Historical Manufacturing

Existing 2-Story Building

Existing Parking Lot

1 Story Building Encroachment from Lot 1

Historical Dress Manufacturer, Historical Cleaning and Dying

SARATOGA AVENUE

BROADWAY

HANCOCK STREET

Sidewalk

SB/MW-1 SV-1 SV-3 SB-3 SV-2 SB-2 SB/MW-4 SV-4 SB-6 SV-8 SB-8 SB-7 SV-7 SV-9 SB-9 SV-11 SB/MW-11 SV-10 SB-10 SB-12

6 11 12 **1489** 13 14 15 16 17 18 1

LEGEND

	PROJECT SITE BOUNDARY
11	LOT BOUNDARY AND TAX LOT NUMBER
1489	TAX BLOCK NUMBER
	BUILDING
X—X	FENCE
SB-7 ●	LOCATION OF SOIL BORING
SB/MW-1 ⊕	LOCATION OF SOIL BORING/MONITORING WELL
SV-2 ⊕	LOCATION OF SOIL VAPOR POINT

0 20 40 80

SCALE IN FEET

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database.

AKRF
440 Park Avenue South, New York, NY 10016

7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York

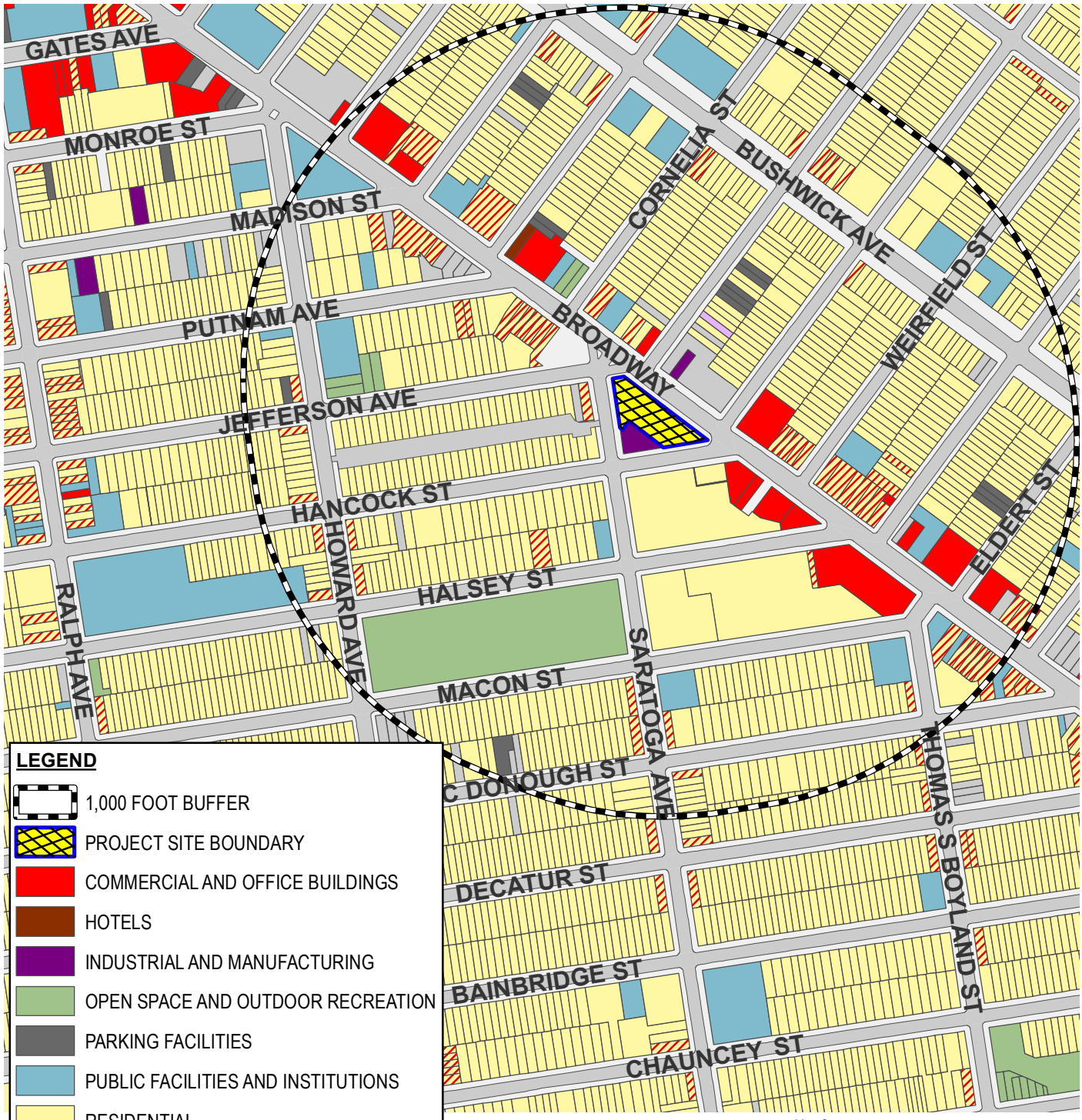
SITE PLAN AND SAMPLING LOCATIONS

DATE
4/23/2018

PROJECT NO.
20568.13

FIGURE
2

W:\Projects\20568.03 - 7 SARATOGA AND 1510 BROADWAY\Technical\Hazmat\Phase II\CAD\20568.03 Fig 2 Site Plan and Sample Locations.dwg last save: jszalus 4/23/2018 11:53 PM



Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

0 400 800
SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York

SURROUNDING LAND USE

DATE
1/10/2018

PROJECT NO.
20568.03

FIGURE
3

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-1(0-2)-20171128 11/28/2017	SB-1(6-8)-20171128 11/28/2017
SVOCs	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(A)Anthracene	1	1	NE	1.4
Benzo(A)Pyrene	1	1	NE	1.2
Benzo(B)Fluoranthene	1	1	1.1	1.3
Chrysene	1	3.9	NE	1.3
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	0.83	0.65
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Lead	63	400	285	300
Mercury	0.18	0.81	NE	0.364
Selenium	3.9	180	5.82	4.55
Zinc	109	10,000	197	184

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-2(0-2)-20171127 11/27/2017	SB-2(10-12)-20171127 11/27/2017
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Selenium	3.9	180	5.88	6

Sample ID Date Sampled	NYSDEC UUSCO	NYSDEC RRSCOs	SB-9(0-2)-20171127 11/27/2017	SB-9(8-10)-20171127 11/27/2017
SVOCs	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(A)Anthracene	1	1	6.9 D	NE
Benzo(A)Pyrene	1	1	5.7	NE
Benzo(B)Fluoranthene	1	1	8.4 D	NE
Benzo(K)Fluoranthene	0.8	3.9	2.5	NE
Chrysene	1	3.9	6.6 D	NE
Dibenz(A,H)Anthracene	0.33	0.33	0.89	NE
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	3.6	NE
Pesticides	mg/kg	mg/kg	mg/kg	mg/kg
P,P'-DDE	0.0033	8.9	0.0081	NE
P,P'-DDT	0.0033	7.9	0.0238	NE
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Barium	350	400	373	NE
Cadmium	2.5	4.3	8.38	NE
Lead	63	400	909	NE
Mercury	0.18	0.81	0.513	NE
Selenium	3.9	180	6.7	7.77
Zinc	109	10,000	1,680	NE

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-4(0-2)-20171128 11/28/2017	SB-4(10-12)-20171128 11/28/2017
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Lead	63	400	69.9	NE
Selenium	3.9	180	6.14	8.39

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-7(0-2)-20171127 11/27/2017	SB-7(4-6)-20171127 11/27/2017
SVOCs	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(A)Anthracene	1	1	1.2 J	6.4 D
Benzo(A)Pyrene	1	1	1.1 J	5
Benzo(B)Fluoranthene	1	1	1.2 J	8.2 D
Benzo(K)Fluoranthene	0.8	3.9	NE	2
Chrysene	1	3.9	1.2 J	6.4 D
Dibenz(A,H)Anthracene	0.33	0.33	NE	0.81
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	0.76 J	3.7
Pesticides	mg/kg	mg/kg	mg/kg	mg/kg
P,P'-DDD	0.0033	13	0.0111	NE
P,P'-DDE	0.0033	8.9	0.0154	NE
P,P'-DDT	0.0033	7.9	0.0608 D	NE
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Lead	63	400	221	NE
Selenium	3.9	180	6.43	7.75
Zinc	109	10,000	124	NE

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-3(0-2)-20171127 11/27/2017	SB-3(10-12)-20171127 11/27/2017
SVOCs	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(A)Anthracene	1	1	41.8 D	NE
Benzo(A)Pyrene	1	1	39.5 D	NE
Benzo(B)Fluoranthene	1	1	54.5 D	NE
Benzo(K)Fluoranthene	0.8	3.9	16	NE
Chrysene	1	3.9	39.6 D	NE
Dibenz(A,H)Anthracene	0.33	0.33	6.1	NE
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	18.5	0.57 J
Pesticides	mg/kg	mg/kg	mg/kg	mg/kg
P,P'-DDT	0.0033	7.9	NE	0.01
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Lead	63	400	90.7	110
Selenium	3.9	180	4.96	4.92

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-10(0-2)-20171127 11/27/2017	SB-X(0-2)-20171127 11/27/2017	SB-10(8-10)-20171127 11/27/2017
SVOCs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(A)Anthracene	1	1	1.4	1.6	1.9
Benzo(A)Pyrene	1	1	1.3	1.5	1.6
Benzo(B)Fluoranthene	1	1	1.6	2	2.1
Chrysene	1	3.9	1.5	1.6	1.6
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	0.81	0.62 J	0.81
Pesticides	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
P,P'-DDT	0.0033	7.9	0.0058	0.0118	NE
Metals	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Lead	63	400	905	298	NE
Mercury	0.18	0.81	0.647	0.377	NE
Selenium	3.9	180	NE	NE	8.39
Zinc	109	10,000	203	147	NE

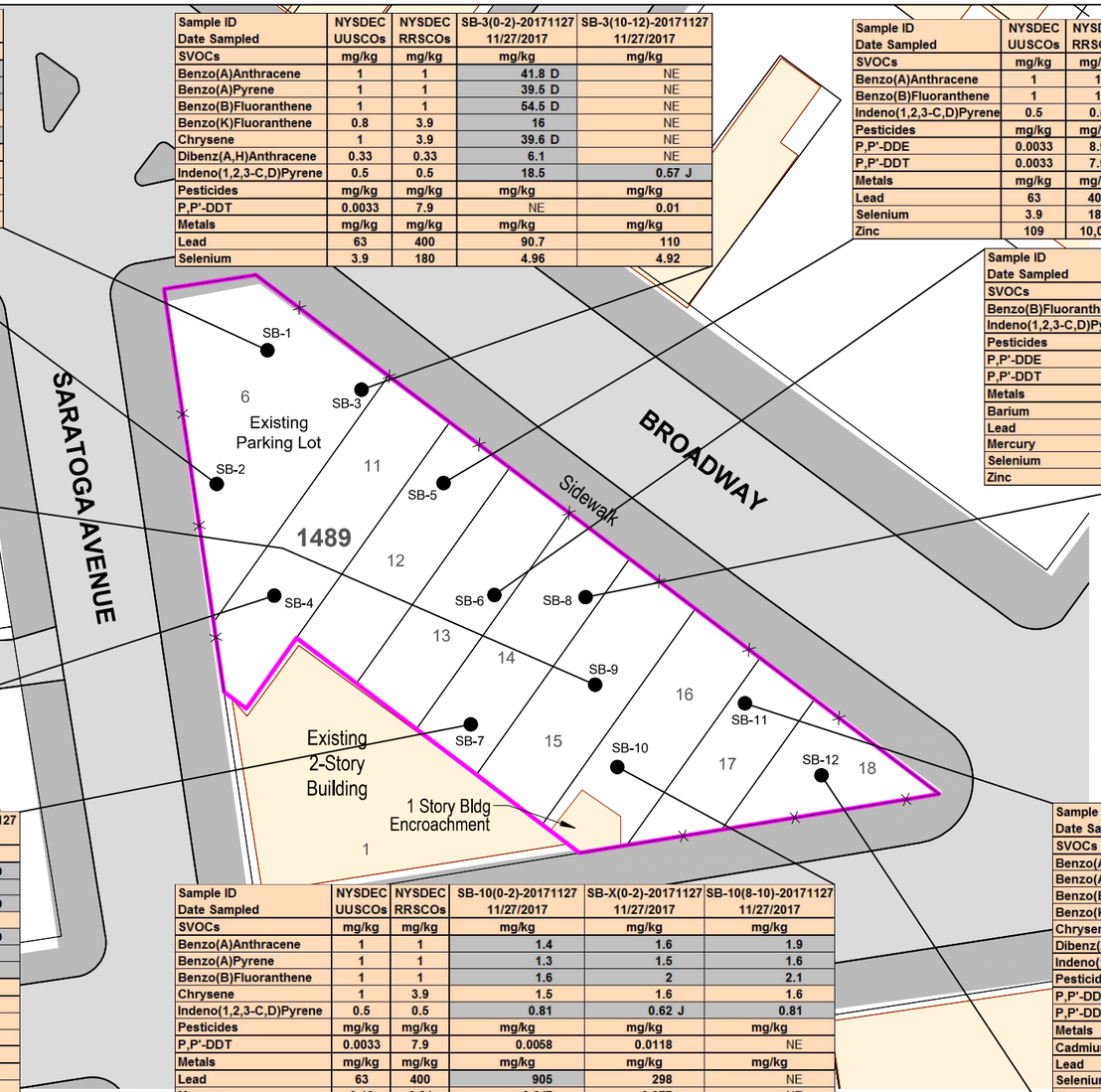
Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-5(0-2)-20171127 11/27/2017	SB-5(10-12)-20171127 11/27/2017
SVOCs	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(A)Anthracene	1	1	1.2	NE
Benzo(B)Fluoranthene	1	1	1.4	NE
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	0.52	NE
Pesticides	mg/kg	mg/kg	mg/kg	mg/kg
P,P'-DDE	0.0033	8.9	0.004	NE
P,P'-DDT	0.0033	7.9	0.0074	NE
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Lead	63	400	104	NE
Selenium	3.9	180	6.52	5.2
Zinc	109	10,000	210	NE

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-6(0-2)-20171128 11/28/2017	SB-6(5-7)-20171128 11/28/2017
SVOCs	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(B)Fluoranthene	1	1	1.3	NE
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	0.59	NE
Pesticides	mg/kg	mg/kg	mg/kg	mg/kg
P,P'-DDE	0.0033	8.9	0.0055	0.0203
P,P'-DDT	0.0033	7.9	0.0113	0.0373
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Barium	350	400	NE	542
Lead	63	400	184	317
Mercury	0.18	0.81	NE	1.83 D
Selenium	3.9	180	5.99	4.2
Zinc	109	10,000	192	342

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-8(0-2)-20171127 11/27/2017
SVOCs	mg/kg	mg/kg	mg/kg
Benzo(A)Anthracene	1	1	4.5
Benzo(A)Pyrene	1	1	4.2
Benzo(B)Fluoranthene	1	1	5.6
Benzo(K)Fluoranthene	0.8	3.9	2.1 J
Chrysene	1	3.9	4.1
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	2.1 J
Pesticides	mg/kg	mg/kg	mg/kg
P,P'-DDE	0.0033	8.9	0.013
P,P'-DDT	0.0033	7.9	0.0284
Metals	mg/kg	mg/kg	mg/kg
Barium	350	400	1,790
Lead	63	400	1,500
Mercury	0.18	0.81	0.195
Selenium	3.9	180	4.34
Zinc	109	10,000	787

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-11(0-2)-20171129 11/29/2017	SB-11(6-8)-20171129 11/29/2017
SVOCs	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(A)Anthracene	1	1	NE	3.4
Benzo(A)Pyrene	1	1	NE	2.9
Benzo(B)Fluoranthene	1	1	1.1	3.9
Benzo(K)Fluoranthene	0.8	3.9	NE	1.1
Chrysene	1	3.9	NE	3.2
Dibenz(A,H)Anthracene	0.33	0.33	NE	0.45 J
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	NE	1.3
Pesticides	mg/kg	mg/kg	mg/kg	mg/kg
P,P'-DDE	0.0033	8.9	NE	0.0038
P,P'-DDT	0.0033	7.9	NE	0.0108
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Cadmium	2.5	4.3	NE	2.8
Lead	63	400	78.8	277
Selenium	3.9	180	NE	4.58
Zinc	109	10,000	NE	897

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-12(0-2)-20171127 11/27/2017	SB-12(10-12)-20171127 11/27/2017
SVOCs	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(A)Anthracene	1	1	2	4.9 D
Benzo(A)Pyrene	1	1	1.8	4.1 D
Benzo(B)Fluoranthene	1	1	2.4	5.7 D
Benzo(K)Fluoranthene	0.8	3.9	NE	1.8
Chrysene	1	3.9	2.1	4.6 D
Dibenz(A,H)Anthracene	0.33	0.33	NE	0.59
Indeno(1,2,3-C,D)Pyrene	0.5	0.5	0.99	2.1
Pesticides	mg/kg	mg/kg	mg/kg	mg/kg
P,P'-DDD	0.0033	13	NE	0.0065
P,P'-DDE	0.0033	8.9	0.0318 D	NE
P,P'-DDT	0.0033	7.9	0.0798 D	0.11 D
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Barium	350	400	NE	380
Lead	63	400	595	386
Mercury	0.18	0.81	0.404	NE
Selenium	3.9	180	6.89	NE
Zinc	109	10,000	363	525



SOIL

J : The reported concentration is an estimated value.

D : Indicates the reported value is from a diluted analysis.

NE : The analyte was not detected at a concentration exceeding UUSCOs or RRSCOs.

Sample ID Date Sampled	NYSDEC UUSCOs	NYSDEC RRSCOs	SB-2(0-2)-20171127 11/27/2017	SB-2(10-12)-20171127 11/27/2017
Metals	mg/kg	mg/kg	mg/kg	mg/kg
Selenium	3.9	180	5.88	6

Sample ID — Sample Date — Analyte/Compound — Concentration

Part 375 Soil Cleanup Objectives (SCOs):
SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) Part 375 Regulations (6 NYCRR Part 375).

mg/kg : milligrams per kilogram = parts per million (ppm)

Exceedances of Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) are shown in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in gray.

Sample SB-X(0-2)-20171127 is a blind duplicate of sample SB-10(0-2)-20171127.

0 25 50 100
SCALE IN FEET

LEGEND

- PROJECT SITE BOUNDARY
- SB-7 — LOCATION OF SOIL BORING
- 11 — LOT BOUNDARY AND TAX LOT NUMBER
- 1489 — TAX BLOCK NUMBER
- BUILDING
- FENCE

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database.

AKRF
440 Park Avenue South, New York, NY 10016

7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York

SOIL CONCENTRATIONS ABOVE NYSDEC SOIL CLEANUP OBJECTIVES

DATE
4/23/2018

PROJECT NO.
20568.13

FIGURE
4

GROUNDWATER CONCENTRATIONS ABOVE NYSDEC AWQS

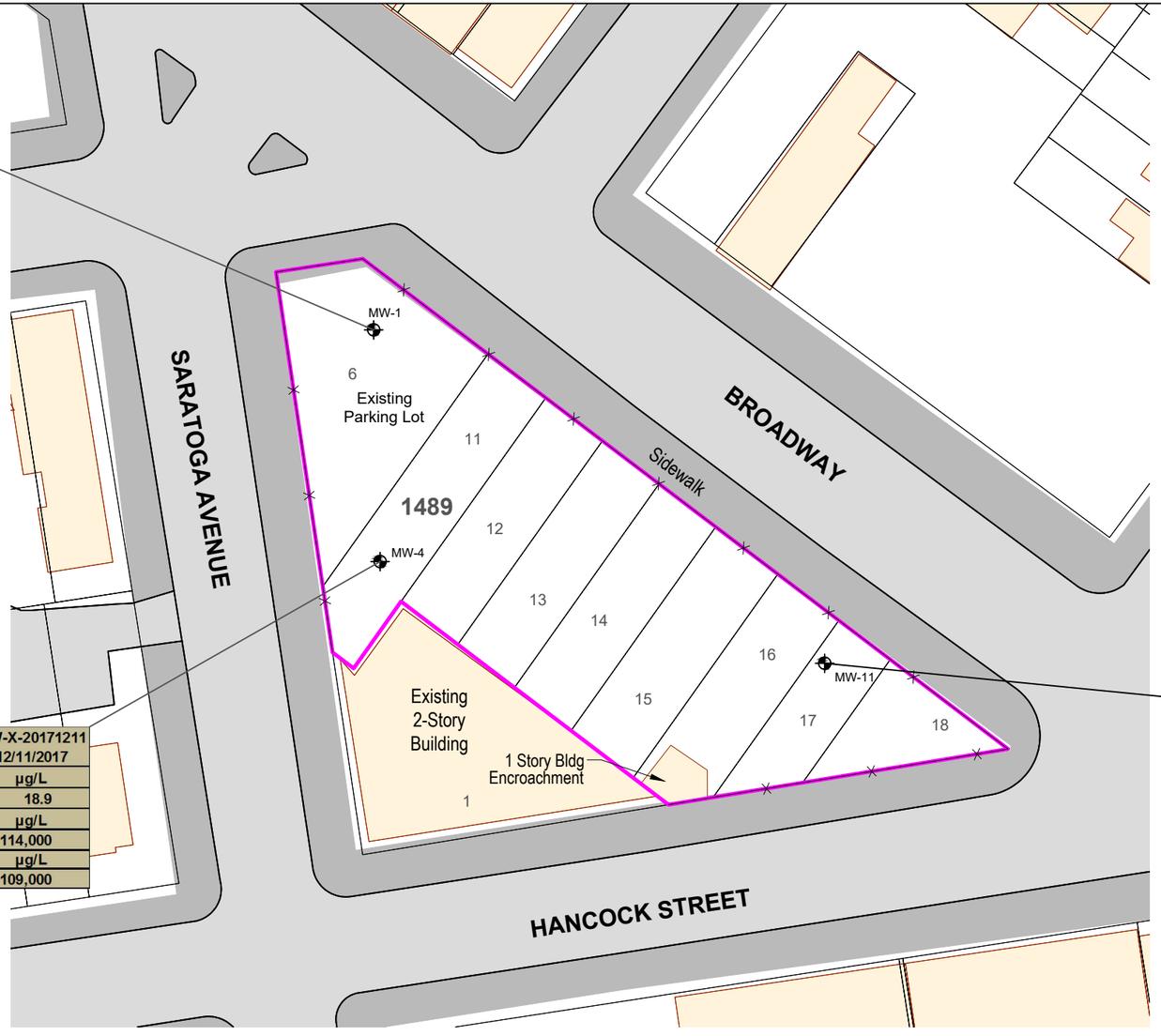
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York

AKRF
440 Park Avenue South, New York, NY 10016

Sample ID Date Sampled	NYSDEC AWQS	MW-1-20171211 12/11/2017
VOCs	µg/L	µg/L
Tetrachloroethylene (PCE)	5	25.5
Total Metals	µg/L	µg/L
Sodium	20,000	75,500
Dissolved Metals	µg/L	µg/L
Sodium	20,000	78,000

Sample ID Date Sampled	NYSDEC AWQS	MW-4-20171211 12/11/2017	MW-X-20171211 12/11/2017
VOCs	µg/L	µg/L	µg/L
Tetrachloroethylene (PCE)	5	19.1	18.9
Total Metals	µg/L	µg/L	µg/L
Sodium	20,000	118,000	114,000
Dissolved Metals	µg/L	µg/L	µg/L
Sodium	20,000	114,000	109,000

Sample ID Date Sampled	NYSDEC AWQS	MW-11-20171211 12/11/2017
VOCs	µg/L	µg/L
Tetrachloroethylene (PCE	5	19.7
Total Metals	µg/L	µg/L
Iron	300	644
Sodium	20,000	59,300
Dissolved Metals	µg/L	µg/L
Sodium	20,000	57,100



LEGEND

- PROJECT SITE BOUNDARY
- 11 — LOT BOUNDARY AND TAX LOT NUMBER
- 1489 — TAX BLOCK NUMBER
- BUILDING
- FENCE
- MW-1 — LOCATION OF MONITORING WELL

GROUNDWATER

NYSDEC Class GA Ambient Water Quality Standard (AWQS)
New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1): Class GA AWQS.

µg/L : micrograms per Liter = parts per billion (ppb)

Exceedances of the AWQS are shown in bold font.
Sample MW-X-20171211 is a blind duplicate of sample MW-4-20171211.

0 25 50 100
SCALE IN FEET

Sample ID Date Sampled	NYSDEC AWQS	MW-11-20171211 12/11/2017
VOCs	µg/L	µg/L
Tetrachloroethylene (PCE	5	19.7
Total Metals	µg/L	µg/L
Iron	300	644
Sodium	20,000	59,300
Dissolved Metals	µg/L	µg/L
Sodium	20,000	57,100

Sample ID
Sample Date
Compound/Analyte
Concentration

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database.

DATE
4/23/2018

PROJECT NO.
20568.13

FIGURE
5

 W:\Projects\20568.03 - 7 SARATOGA AND 1510 BROADWAY\Technical\Hazmat\Phase II\CAD\20568.03 Fig 4.5.6 Concentration results.dwg last save: jszalus 4/23/2018 12:01 PM

Sample ID Date Sampled	SV-1-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	10.8
1,3,5-Trimethylbenzene (Mesitylene)	3.1
2,2,4-Trimethylpentane	1.54 J
4-Ethyltoluene	6.88
Acetone	78.9 DQ
Benzene	6.39
Carbon Disulfide	2.37
Chloroform	1.12 J
Dichlorodifluoromethane	2.08 J
Ethylbenzene	15.2
M,P-Xylenes	58.2
Methyl Ethyl Ketone (2-Butanone)	9.44
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.19 J
N-Heptane	9.02
N-Hexane	10.2
O-Xylene (1,2-Dimethylbenzene)	14.8
Styrene	1.41 J
Tert-Butyl Alcohol	10.9 Q
Tetrachloroethylene (PCE)	277 D
Toluene	51.2 D
Trichloroethylene (TCE)	10.2
Trichlorofluoromethane	2.81

Sample ID Date Sampled	SV-2-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	12.3
1,3,5-Trimethylbenzene (Mesitylene)	3.88
2,2,4-Trimethylpentane	4.2
4-Ethyltoluene	8.85
Acetone	90.3 DQ
Benzene	16.6
Carbon Disulfide	2.9
Carbon Tetrachloride	25.2
Chloroform	3.66
Ethylbenzene	20.4
M,P-Xylenes	76.4
Methyl Ethyl Ketone (2-Butanone)	19.2
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	3.11
Methylene Chloride	10.4
N-Heptane	10.7
N-Hexane	25.7
O-Xylene (1,2-Dimethylbenzene)	20.4
Tert-Butyl Alcohol	6.97
Tetrachloroethylene (PCE)	43.4
Toluene	69 D
Trichloroethylene (TCE)	8.06
Trichlorofluoromethane	1.63 J

Sample ID Date Sampled	SV-3-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	11.8
1,3,5-Trimethylbenzene (Mesitylene)	3.44 J
2,2,4-Trimethylpentane	2.15 J
4-Ethyltoluene	6.88
Acetone	86.5 DQ
Benzene	7.99
Carbon Disulfide	5.61
Dichlorodifluoromethane	1.29 J
Ethylbenzene	13.9
M,P-Xylenes	56.5
Methyl Ethyl Ketone (2-Butanone)	10
Methylene Chloride	22.2
N-Heptane	7.38
N-Hexane	16.9
O-Xylene (1,2-Dimethylbenzene)	14.3
Tert-Butyl Alcohol	21.5
Tetrachloroethylene (PCE)	27.1
Toluene	56.2

Sample ID Date Sampled	SV-4-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	15.2
1,3,5-Trimethylbenzene (Mesitylene)	4.92
2,2,4-Trimethylpentane	59.8
4-Ethyltoluene	9.34
Acetone	76.2 DQ
Benzene	7.35
Carbon Disulfide	3.43
Chloroform	2.15 J
Ethylbenzene	19.1
M,P-Xylenes	78.2
Methyl Ethyl Ketone (2-Butanone)	12.1
N-Heptane	9.43
N-Hexane	17.3
O-Xylene (1,2-Dimethylbenzene)	21.3
Tert-Butyl Alcohol	7.88
Tert-Butyl Methyl Ether	1.51 J
Tetrachloroethylene (PCE)	14.9
Toluene	62.9
Trichlorofluoromethane	1.35 J

Sample ID Date Sampled	SV-5-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	14.8
1,3,5-Trimethylbenzene (Mesitylene)	4.13 J
2,2,4-Trimethylpentane	1.59 J
4-Ethyltoluene	8.36
Acetone	59.6 DQ
Benzene	4.79
Ethylbenzene	12.2
M,P-Xylenes	52.1
Methyl Ethyl Ketone (2-Butanone)	16.8
Methylene Chloride	21.2
N-Heptane	5.74
N-Hexane	15.2
O-Xylene (1,2-Dimethylbenzene)	14.3
Styrene	1.36 J
Tert-Butyl Alcohol	19.7
Tetrachloroethylene (PCE)	2.58
Toluene	40.3

Sample ID Date Sampled	SV-7-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	26.1
1,3,5-Trimethylbenzene (Mesitylene)	8.36
2,2,4-Trimethylpentane	3.36 J
4-Ethyltoluene	16.2
Acetone	118 DQ
Benzene	9.26
Carbon Disulfide	18.1
Ethylbenzene	28.7
M,P-Xylenes	109
Methyl Ethyl Ketone (2-Butanone)	38
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.38 J
Methylene Chloride	13.9
N-Heptane	35.6
N-Hexane	79.3
O-Xylene (1,2-Dimethylbenzene)	31.7
Styrene	2.04 J
Tert-Butyl Alcohol	8.49
Tetrachloroethylene (PCE)	3.8
Toluene	89.3
Trichlorofluoromethane	6.18

Sample ID Date Sampled	SV-8-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	35.9
1,3,5-Trimethylbenzene (Mesitylene)	11.3
2,2,4-Trimethylpentane	30.4
4-Ethyltoluene	19.2
Acetone	53 DQ
Benzene	13.4
Dichlorodifluoromethane	1.68 J
Ethylbenzene	30.8
M,P-Xylenes	117
Methyl Ethyl Ketone (2-Butanone)	3.54
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	9.02
Methylene Chloride	7.64
N-Heptane	23.4
N-Hexane	22.2
O-Xylene (1,2-Dimethylbenzene)	35.6
Tetrachloroethylene (PCE)	1.9
Toluene	111 D
Trichloroethylene (TCE)	1.61
Trichlorofluoromethane	13.5

Sample ID Date Sampled	SV-10-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	27.5
1,3,5-Trimethylbenzene (Mesitylene)	8.36 J
2,2,4-Trimethylpentane	2.06 J
Acetone	89.6 DQ
Benzene	5.11 J
Ethylbenzene	19.1
M,P-Xylenes	79.5
Methyl Ethyl Ketone (2-Butanone)	8.85
N-Heptane	9.43
N-Hexane	13.4
O-Xylene (1,2-Dimethylbenzene)	19.1
Tetrachloroethylene (PCE)	10.8
Toluene	66.3
Trichlorofluoromethane	59.6

Sample ID Date Sampled	SV-11-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	25.6
1,3,5-Trimethylbenzene (Mesitylene)	12.8
2,2,4-Trimethylpentane	35
4-Ethyltoluene	17.7
Acetone	79.1 DQ
Benzene	30.7
Dichlorodifluoromethane	7.42 J
Ethylbenzene	84.7
M,P-Xylenes	273
Methyl Ethyl Ketone (2-Butanone)	8.85
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	11.9
N-Heptane	29.9
N-Hexane	15.2
O-Xylene (1,2-Dimethylbenzene)	85.1
Tetrachloroethylene (PCE)	8.14
Toluene	315 D
Trichlorofluoromethane	16.9

Sample ID Date Sampled	SV-9-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	20.6
1,3,5-Trimethylbenzene (Mesitylene)	6.88
2,2,4-Trimethylpentane	2.9 J
4-Ethyltoluene	11.8
Acetone	105 DQ
Benzene	7.35
Carbon Disulfide	38
Dichlorodifluoromethane	3.66 J
Ethylbenzene	20
M,P-Xylenes	81.7
Methyl Ethyl Ketone (2-Butanone)	29.2
N-Heptane	11.5
N-Hexane	15.9
O-Xylene (1,2-Dimethylbenzene)	22.6
Styrene	1.87 J
Tert-Butyl Alcohol	7.58
Tetrachloroethylene (PCE)	4.88
Toluene	62.6
Trichlorofluoromethane	69.1

SARATOGA AVENUE

BROADWAY

HANCOCK STREET

Existing Parking Lot

Existing 2-Story Building

1 Story Bldg Encroachment

Sidewalk

1489

6 11 12 13 14 15 16 17 18 1

SV-1 SV-2 SV-3 SV-4 SV-5 SV-7 SV-8 SV-9 SV-10 SV-11

0 25 50 100

SCALE IN FEET

LEGEND

PROJECT SITE BOUNDARY

SV-9 LOCATION OF SOIL VAPOR POINT

11 LOT BOUNDARY AND TAX LOT NUMBER

1489 TAX BLOCK NUMBER

BUILDING

FENCE

Sample ID Date Sampled	SV-3-20171129 11/29/2017
VOCs	µg/m³
1,2,4-Trimethylbenzene	11.8

Sample ID

Sample Date

Analyte/Compound

Concentration

SOIL VAPOR

J : The result reported concentration is an estimated value.

D : Indicates the reported value is from a diluted analysis.

Q : Indicates the Lab Control Sample (LCS) did not meet the control limits requirements.

NS : A standard has not been established for the analyte.

µg/m³ : micrograms per cubic meter

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database.

AKRF
440 Park Avenue South, New York, NY 10016

7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York

SOIL VAPOR CONCENTRATIONS

DATE
4/23/2018

PROJECT NO.
20568.13

FIGURE
6

TABLES

Table 1
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-1(0-2)-20171128 11/28/2017 1 mg/kg	SB-1(6-8)-20171128 11/28/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0057 U	0.0031 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0057 U	0.0031 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0057 U	0.0031 U
1,1,2-Trichloroethane	NS	NS	0.0057 U	0.0031 U
1,1-Dichloroethane	0.27	26	0.0057 U	0.0031 U
1,1-Dichloroethene	0.33	100	0.0057 U	0.0031 U
1,2,3-Trichlorobenzene	NS	NS	0.0057 U	0.0031 U
1,2,4-Trichlorobenzene	NS	NS	0.0057 U	0.0031 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0057 U	0.0031 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0057 U	0.0031 U
1,2-Dichlorobenzene	1.1	100	0.0057 U	0.0031 U
1,2-Dichloroethane	0.02	3.1	0.0057 U	0.0031 U
1,2-Dichloropropane	NS	NS	0.0057 U	0.0031 U
1,3-Dichlorobenzene	2.4	49	0.0057 U	0.0031 U
1,4-Dichlorobenzene	1.8	13	0.0057 U	0.0031 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.11 UJ	0.0629 U
2-Hexanone	NS	NS	0.0284 U	0.0157 U
Acetone	0.05	100	0.0284 U	0.0126 J
Benzene	0.06	4.8	0.0057 U	0.0031 U
Bromochloromethane	NS	NS	0.0057 U	0.0031 U
Bromodichloromethane	NS	NS	0.0057 U	0.0031 U
Bromoform	NS	NS	0.0057 U	0.0031 U
Bromomethane	NS	NS	0.0057 U	0.0031 U
Carbon Disulfide	NS	NS	0.0057 U	0.0031 U
Carbon Tetrachloride	0.76	2.4	0.0057 U	0.0031 U
Chlorobenzene	1.1	100	0.0057 U	0.0031 U
Chloroethane	NS	NS	0.0057 U	0.0031 U
Chloroform	0.37	49	0.0057 U	0.00081 J
Chloromethane	NS	NS	0.0057 U	0.0031 U
Cis-1,2-Dichloroethylene	0.25	100	0.0057 U	0.0031 U
Cis-1,3-Dichloropropene	NS	NS	0.0057 U	0.0031 U
Cyclohexane	NS	NS	0.0057 U	0.0031 U
Dibromochloromethane	NS	NS	0.0057 U	0.0031 U
Dichlorodifluoromethane	NS	NS	0.0057 U	0.0031 U
Ethylbenzene	1	41	0.0057 U	0.0031 U
Isopropylbenzene (Cumene)	NS	NS	0.0057 U	0.0031 U
M,P-Xylenes	NS	NS	0.0113 U	0.0063 U
Methyl Acetate	NS	NS	0.0057 U	0.0031 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0284 U	0.0157 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0284 U	0.0157 U
Methylcyclohexane	NS	NS	0.0057 U	0.0031 U
Methylene Chloride	0.05	100	0.0022 J	0.0032
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0057 U	0.0031 U
Styrene	NS	NS	0.0057 U	0.0031 U
Tert-Butyl Methyl Ether	0.93	100	0.0057 U	0.0031 U
Tetrachloroethylene (PCE)	1.3	19	0.0057 U	0.005
Toluene	0.7	100	0.0057 U	0.0031 U
Trans-1,2-Dichloroethene	0.19	100	0.0057 U	0.0031 U
Trans-1,3-Dichloropropene	NS	NS	0.0057 U	0.0031 U
Trichloroethylene (TCE)	0.47	21	0.0057 U	0.0031 U
Trichlorofluoromethane	NS	NS	0.0057 U	0.0031 U
Vinyl Chloride	0.02	0.9	0.0057 U	0.0031 U
Xylenes, Total	0.26	100	0.0170 U	0.0094 U

Table 1
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-2(0-2)-20171127 11/27/2017 1 mg/kg	SB-2(10-12)-20171127 11/27/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0028 U	0.0025 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0028 U	0.0025 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0028 U	0.0025 U
1,1,2-Trichloroethane	NS	NS	0.0028 U	0.0025 U
1,1-Dichloroethane	0.27	26	0.0028 U	0.0025 U
1,1-Dichloroethene	0.33	100	0.0028 U	0.0025 U
1,2,3-Trichlorobenzene	NS	NS	0.0028 U	0.0025 U
1,2,4-Trichlorobenzene	NS	NS	0.0028 U	0.0025 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0028 U	0.0025 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0028 U	0.0025 U
1,2-Dichlorobenzene	1.1	100	0.0028 U	0.0025 U
1,2-Dichloroethane	0.02	3.1	0.0028 U	0.0025 U
1,2-Dichloropropane	NS	NS	0.0028 U	0.0025 U
1,3-Dichlorobenzene	2.4	49	0.0028 U	0.0025 U
1,4-Dichlorobenzene	1.8	13	0.0028 U	0.0025 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.0552 U	0.0508 U
2-Hexanone	NS	NS	0.0138 U	0.0127 U
Acetone	0.05	100	0.0115 J	0.0238 J
Benzene	0.06	4.8	0.0028 U	0.0025 U
Bromochloromethane	NS	NS	0.0028 U	0.0025 U
Bromodichloromethane	NS	NS	0.0028 U	0.0025 U
Bromoform	NS	NS	0.0028 U	0.0025 U
Bromomethane	NS	NS	0.0028 U	0.0025 U
Carbon Disulfide	NS	NS	0.0028 U	0.0025 U
Carbon Tetrachloride	0.76	2.4	0.0028 U	0.0025 U
Chlorobenzene	1.1	100	0.0028 U	0.0025 U
Chloroethane	NS	NS	0.0028 U	0.0025 U
Chloroform	0.37	49	0.00064 J	0.00059 J
Chloromethane	NS	NS	0.0028 U	0.0025 U
Cis-1,2-Dichloroethylene	0.25	100	0.0028 U	0.0025 U
Cis-1,3-Dichloropropene	NS	NS	0.0028 U	0.0025 U
Cyclohexane	NS	NS	0.0028 U	0.0025 U
Dibromochloromethane	NS	NS	0.0028 U	0.0025 U
Dichlorodifluoromethane	NS	NS	0.0028 U	0.0025 U
Ethylbenzene	1	41	0.0028 U	0.00053 J
Isopropylbenzene (Cumene)	NS	NS	0.0028 U	0.0025 U
M,P-Xylenes	NS	NS	0.0055 U	0.0023 J
Methyl Acetate	NS	NS	0.0028 U	0.0025 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0138 U	0.0127 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0138 U	0.0127 U
Methylcyclohexane	NS	NS	0.0028 U	0.0025 U
Methylene Chloride	0.05	100	0.003	0.0031 J
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0028 U	0.00075 J
Styrene	NS	NS	0.0028 U	0.0025 U
Tert-Butyl Methyl Ether	0.93	100	0.0028 U	0.0025 U
Tetrachloroethylene (PCE)	1.3	19	0.0028 U	0.0025 U
Toluene	0.7	100	0.0028 U	0.0025 U
Trans-1,2-Dichloroethene	0.19	100	0.0028 U	0.0025 U
Trans-1,3-Dichloropropene	NS	NS	0.0028 U	0.0025 U
Trichloroethylene (TCE)	0.47	21	0.0028 U	0.0025 U
Trichlorofluoromethane	NS	NS	0.0028 U	0.0025 U
Vinyl Chloride	0.02	0.9	0.0028 U	0.0025 U
Xylenes, Total	0.26	100	0.0083 U	0.0031 J

Table 1
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-3(0-2)-20171127 11/27/2017 1 mg/kg	SB-3(10-12)-20171127 11/27/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0024 U	0.0027 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0024 UJ	0.0027 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0024 U	0.0027 U
1,1,2-Trichloroethane	NS	NS	0.0024 U	0.0027 U
1,1-Dichloroethane	0.27	26	0.0024 U	0.0027 U
1,1-Dichloroethene	0.33	100	0.0024 U	0.0027 U
1,2,3-Trichlorobenzene	NS	NS	0.0024 U	0.0027 UJ
1,2,4-Trichlorobenzene	NS	NS	0.0024 UJ	0.0027 UJ
1,2-Dibromo-3-Chloropropane	NS	NS	0.0024 U	0.0027 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0024 U	0.0027 U
1,2-Dichlorobenzene	1.1	100	0.0024 UJ	0.0027 UJ
1,2-Dichloroethane	0.02	3.1	0.0024 U	0.0027 U
1,2-Dichloropropane	NS	NS	0.0024 U	0.0027 U
1,3-Dichlorobenzene	2.4	49	0.0024 UJ	0.0027 UJ
1,4-Dichlorobenzene	1.8	13	0.0024 UJ	0.0027 UJ
1,4-Dioxane (P-Dioxane)	0.1	13	0.0489 U	0.0547 U
2-Hexanone	NS	NS	0.0122 U	0.0137 U
Acetone	0.05	100	0.0122 U	0.0177
Benzene	0.06	4.8	0.0024 U	0.0027 U
Bromochloromethane	NS	NS	0.0024 U	0.0027 U
Bromodichloromethane	NS	NS	0.0024 U	0.0027 U
Bromoform	NS	NS	0.0024 U	0.0027 U
Bromomethane	NS	NS	0.0024 U	0.0027 U
Carbon Disulfide	NS	NS	0.0024 U	0.0027 U
Carbon Tetrachloride	0.76	2.4	0.0024 U	0.0027 U
Chlorobenzene	1.1	100	0.0024 U	0.0027 U
Chloroethane	NS	NS	0.0024 U	0.0027 U
Chloroform	0.37	49	0.00069 J	0.0008 J
Chloromethane	NS	NS	0.0024 U	0.0027 U
Cis-1,2-Dichloroethylene	0.25	100	0.0024 U	0.0027 U
Cis-1,3-Dichloropropene	NS	NS	0.0024 U	0.0027 U
Cyclohexane	NS	NS	0.0024 U	0.0027 U
Dibromochloromethane	NS	NS	0.0024 U	0.0027 U
Dichlorodifluoromethane	NS	NS	0.0024 U	0.0027 U
Ethylbenzene	1	41	0.0024 U	0.0027 U
Isopropylbenzene (Cumene)	NS	NS	0.0024 UJ	0.0027 U
M,P-Xylenes	NS	NS	0.0017 J	0.0055 U
Methyl Acetate	NS	NS	0.0024 U	0.0027 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0122 U	0.0137 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0122 U	0.0137 U
Methylcyclohexane	NS	NS	0.0024 U	0.0027 U
Methylene Chloride	0.05	100	0.0024 U	0.0039
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.00062 J	0.0027 U
Styrene	NS	NS	0.0024 U	0.0027 U
Tert-Butyl Methyl Ether	0.93	100	0.0024 U	0.0027 U
Tetrachloroethylene (PCE)	1.3	19	0.0024 U	0.0027 U
Toluene	0.7	100	0.0024 U	0.0027 U
Trans-1,2-Dichloroethene	0.19	100	0.0024 U	0.0027 U
Trans-1,3-Dichloropropene	NS	NS	0.0024 U	0.0027 U
Trichloroethylene (TCE)	0.47	21	0.0024 U	0.0027 U
Trichlorofluoromethane	NS	NS	0.0006 J	0.0027 U
Vinyl Chloride	0.02	0.9	0.0024 U	0.0027 U
Xylenes, Total	0.26	100	0.0023 J	0.0082 U

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Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-4(0-2)-20171128 11/28/2017 1 mg/kg	SB-4(10-12)-20171128 11/28/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0026 U	0.0023 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0026 UJ	0.0023 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0026 U	0.0023 U
1,1,2-Trichloroethane	NS	NS	0.0026 U	0.0023 U
1,1-Dichloroethane	0.27	26	0.0026 U	0.0023 U
1,1-Dichloroethene	0.33	100	0.0026 U	0.0023 U
1,2,3-Trichlorobenzene	NS	NS	0.0026 U	0.0023 U
1,2,4-Trichlorobenzene	NS	NS	0.0026 UJ	0.0023 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0026 U	0.0023 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0026 U	0.0023 U
1,2-Dichlorobenzene	1.1	100	0.0026 UJ	0.0023 U
1,2-Dichloroethane	0.02	3.1	0.0026 U	0.0023 U
1,2-Dichloropropane	NS	NS	0.0026 U	0.0023 U
1,3-Dichlorobenzene	2.4	49	0.0026 UJ	0.0023 U
1,4-Dichlorobenzene	1.8	13	0.0026 UJ	0.0023 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.052 U	0.0469 U
2-Hexanone	NS	NS	0.013 U	0.0117 U
Acetone	0.05	100	0.013 U	0.0117 U
Benzene	0.06	4.8	0.0026 U	0.0023 U
Bromochloromethane	NS	NS	0.0026 U	0.0023 U
Bromodichloromethane	NS	NS	0.0026 U	0.0023 U
Bromoform	NS	NS	0.0026 U	0.0023 U
Bromomethane	NS	NS	0.0026 U	0.0023 U
Carbon Disulfide	NS	NS	0.0026 U	0.0023 U
Carbon Tetrachloride	0.76	2.4	0.0026 U	0.0023 U
Chlorobenzene	1.1	100	0.0026 U	0.0023 U
Chloroethane	NS	NS	0.0026 U	0.0023 U
Chloroform	0.37	49	0.0026 U	0.00048 J
Chloromethane	NS	NS	0.0026 U	0.0023 U
Cis-1,2-Dichloroethylene	0.25	100	0.0026 U	0.0023 U
Cis-1,3-Dichloropropene	NS	NS	0.0026 U	0.0023 U
Cyclohexane	NS	NS	0.0026 U	0.0023 U
Dibromochloromethane	NS	NS	0.0026 U	0.0023 U
Dichlorodifluoromethane	NS	NS	0.0026 U	0.0023 U
Ethylbenzene	1	41	0.0026 U	0.0023 U
Isopropylbenzene (Cumene)	NS	NS	0.0026 UJ	0.0023 U
M,P-Xylenes	NS	NS	0.0052 U	0.0047 U
Methyl Acetate	NS	NS	0.0026 U	0.0023 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.013 U	0.0117 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.013 U	0.0117 U
Methylcyclohexane	NS	NS	0.0026 U	0.0023 U
Methylene Chloride	0.05	100	0.002 J	0.0028
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0026 U	0.0023 U
Styrene	NS	NS	0.0026 U	0.0023 U
Tert-Butyl Methyl Ether	0.93	100	0.0026 U	0.0023 U
Tetrachloroethylene (PCE)	1.3	19	0.0026 U	0.0023 U
Toluene	0.7	100	0.0026 U	0.0023 U
Trans-1,2-Dichloroethene	0.19	100	0.0026 U	0.0023 U
Trans-1,3-Dichloropropene	NS	NS	0.0026 U	0.0023 U
Trichloroethylene (TCE)	0.47	21	0.0026 U	0.0023 U
Trichlorofluoromethane	NS	NS	0.0026 U	0.0023 U
Vinyl Chloride	0.02	0.9	0.0026 U	0.0023 U
Xylenes, Total	0.26	100	0.0078 U	0.0070 U

Table 1
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Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-5(0-2)-20171127 11/27/2017 1 mg/kg	SB-5(10-12)-20171127 11/27/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0033 U	0.0037 UJ
1,1,2,2-Tetrachloroethane	NS	NS	0.0033 UJ	0.0037 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0033 U	0.0037 UJ
1,1,2-Trichloroethane	NS	NS	0.0033 U	0.0037 UJ
1,1-Dichloroethane	0.27	26	0.0033 U	0.0037 UJ
1,1-Dichloroethene	0.33	100	0.0033 U	0.0037 UJ
1,2,3-Trichlorobenzene	NS	NS	0.0033 UJ	0.0037 UJ
1,2,4-Trichlorobenzene	NS	NS	0.0033 UJ	0.0037 UJ
1,2-Dibromo-3-Chloropropane	NS	NS	0.0033 UJ	0.0037 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0033 U	0.0037 UJ
1,2-Dichlorobenzene	1.1	100	0.0033 UJ	0.0037 UJ
1,2-Dichloroethane	0.02	3.1	0.0033 U	0.0037 UJ
1,2-Dichloropropane	NS	NS	0.0033 U	0.0037 UJ
1,3-Dichlorobenzene	2.4	49	0.0033 UJ	0.0037 UJ
1,4-Dichlorobenzene	1.8	13	0.0033 UJ	0.0037 UJ
1,4-Dioxane (P-Dioxane)	0.1	13	0.0656 U	0.0749 UJ
2-Hexanone	NS	NS	0.0164 U	0.0187 UJ
Acetone	0.05	100	0.0164 U	0.0187 UJ
Benzene	0.06	4.8	0.0033 U	0.0037 UJ
Bromochloromethane	NS	NS	0.0033 U	0.0037 UJ
Bromodichloromethane	NS	NS	0.0033 U	0.0037 UJ
Bromoform	NS	NS	0.0033 U	0.0037 UJ
Bromomethane	NS	NS	0.0033 U	0.0037 UJ
Carbon Disulfide	NS	NS	0.0033 U	0.0037 UJ
Carbon Tetrachloride	0.76	2.4	0.0033 U	0.0037 UJ
Chlorobenzene	1.1	100	0.0033 U	0.0037 UJ
Chloroethane	NS	NS	0.0033 U	0.0037 UJ
Chloroform	0.37	49	0.0033 U	0.0037 UJ
Chloromethane	NS	NS	0.0033 U	0.0037 UJ
Cis-1,2-Dichloroethylene	0.25	100	0.0033 U	0.0037 UJ
Cis-1,3-Dichloropropene	NS	NS	0.0033 U	0.0037 UJ
Cyclohexane	NS	NS	0.0033 U	0.0037 UJ
Dibromochloromethane	NS	NS	0.0033 U	0.0037 UJ
Dichlorodifluoromethane	NS	NS	0.0033 U	0.0037 UJ
Ethylbenzene	1	41	0.0033 U	0.0037 UJ
Isopropylbenzene (Cumene)	NS	NS	0.0033 UJ	0.0037 UJ
M,P-Xylenes	NS	NS	0.0066 U	0.0075 UJ
Methyl Acetate	NS	NS	0.0033 U	0.0037 UJ
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0164 U	0.0187 UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0164 U	0.0187 UJ
Methylcyclohexane	NS	NS	0.0033 U	0.0037 UJ
Methylene Chloride	0.05	100	0.0033 U	0.003 JH
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0033 U	0.0037 UJ
Styrene	NS	NS	0.0033 U	0.0037 U
Tert-Butyl Methyl Ether	0.93	100	0.0033 U	0.0037 UJ
Tetrachloroethylene (PCE)	1.3	19	0.0033 U	0.0037 UJ
Toluene	0.7	100	0.0033 U	0.0037 UJ
Trans-1,2-Dichloroethene	0.19	100	0.0033 U	0.0037 UJ
Trans-1,3-Dichloropropene	NS	NS	0.0033 U	0.0037 UJ
Trichloroethylene (TCE)	0.47	21	0.0033 U	0.0037 UJ
Trichlorofluoromethane	NS	NS	0.0033 U	0.0037 UJ
Vinyl Chloride	0.02	0.9	0.0033 U	0.0037 UJ
Xylenes, Total	0.26	100	0.0099 U	0.0112 U

Table 1
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Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-6(0-2)-20171128 11/28/2017 1 mg/kg	SB-6(5-7)-20171128 11/28/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0037 U	0.0028 UJ
1,1,2,2-Tetrachloroethane	NS	NS	0.0037 U	0.0028 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0037 U	0.0028 UJ
1,1,2-Trichloroethane	NS	NS	0.0037 U	0.0028 UJ
1,1-Dichloroethane	0.27	26	0.0037 U	0.0028 UJ
1,1-Dichloroethene	0.33	100	0.0037 U	0.0028 UJ
1,2,3-Trichlorobenzene	NS	NS	0.0037 U	0.0028 UJ
1,2,4-Trichlorobenzene	NS	NS	0.0037 U	0.0028 UJ
1,2-Dibromo-3-Chloropropane	NS	NS	0.0037 U	0.0028 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0037 U	0.0028 UJ
1,2-Dichlorobenzene	1.1	100	0.0037 U	0.0028 UJ
1,2-Dichloroethane	0.02	3.1	0.0037 U	0.0028 UJ
1,2-Dichloropropane	NS	NS	0.0037 U	0.0028 UJ
1,3-Dichlorobenzene	2.4	49	0.0037 U	0.0028 UJ
1,4-Dichlorobenzene	1.8	13	0.0037 U	0.0028 UJ
1,4-Dioxane (P-Dioxane)	0.1	13	0.0738 U	0.0565 UJ
2-Hexanone	NS	NS	0.0185 U	0.0141 UJ
Acetone	0.05	100	0.0163 J	0.0225 JH
Benzene	0.06	4.8	0.0037 U	0.0028 UJ
Bromochloromethane	NS	NS	0.0037 U	0.0028 UJ
Bromodichloromethane	NS	NS	0.0037 U	0.0028 UJ
Bromoform	NS	NS	0.0037 U	0.0028 UJ
Bromomethane	NS	NS	0.0037 U	0.0028 UJ
Carbon Disulfide	NS	NS	0.0037 U	0.0028 UJ
Carbon Tetrachloride	0.76	2.4	0.0037 U	0.0028 UJ
Chlorobenzene	1.1	100	0.0037 U	0.0028 UJ
Chloroethane	NS	NS	0.0037 U	0.0028 UJ
Chloroform	0.37	49	0.00079 J	0.0028 UJ
Chloromethane	NS	NS	0.0037 U	0.0028 UJ
Cis-1,2-Dichloroethylene	0.25	100	0.0037 U	0.0028 UJ
Cis-1,3-Dichloropropene	NS	NS	0.0037 U	0.0028 UJ
Cyclohexane	NS	NS	0.0037 U	0.0028 UJ
Dibromochloromethane	NS	NS	0.0037 U	0.0028 UJ
Dichlorodifluoromethane	NS	NS	0.0037 U	0.0028 UJ
Ethylbenzene	1	41	0.0037 U	0.0028 UJ
Isopropylbenzene (Cumene)	NS	NS	0.0037 U	0.0028 UJ
M,P-Xylenes	NS	NS	0.0074 U	0.0057 UJ
Methyl Acetate	NS	NS	0.0037 U	0.0028 UJ
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0185 U	0.0141 UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0185 U	0.0141 UJ
Methylcyclohexane	NS	NS	0.0037 U	0.0028 UJ
Methylene Chloride	0.05	100	0.0034 J	0.0028 JH
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0037 U	0.0028 UJ
Styrene	NS	NS	0.0037 U	0.0028 UJ
Tert-Butyl Methyl Ether	0.93	100	0.0037 U	0.0028 UJ
Tetrachloroethylene (PCE)	1.3	19	0.0037 U	0.0028 UJ
Toluene	0.7	100	0.0037 U	0.0028 UJ
Trans-1,2-Dichloroethene	0.19	100	0.0037 U	0.0028 UJ
Trans-1,3-Dichloropropene	NS	NS	0.0037 U	0.0028 UJ
Trichloroethylene (TCE)	0.47	21	0.0037 U	0.0028 UJ
Trichlorofluoromethane	NS	NS	0.0037 U	0.0028 UJ
Vinyl Chloride	0.02	0.9	0.0037 U	0.0028 UJ
Xylenes, Total	0.26	100	0.0111 U	0.0085 U

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Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-7(0-2)-20171127 11/27/2017 1 mg/kg	SB-7(4-6)-20171127 11/27/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.003 U	0.0022 U
1,1,2,2-Tetrachloroethane	NS	NS	0.003 UJ	0.0022 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.003 U	0.0022 U
1,1,2-Trichloroethane	NS	NS	0.003 U	0.0022 U
1,1-Dichloroethane	0.27	26	0.003 U	0.0022 U
1,1-Dichloroethene	0.33	100	0.003 U	0.0022 U
1,2,3-Trichlorobenzene	NS	NS	0.003 UJ	0.0022 U
1,2,4-Trichlorobenzene	NS	NS	0.003 UJ	0.0022 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.003 UJ	0.0022 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.003 U	0.0022 U
1,2-Dichlorobenzene	1.1	100	0.003 UJ	0.0022 U
1,2-Dichloroethane	0.02	3.1	0.003 U	0.0022 U
1,2-Dichloropropane	NS	NS	0.003 U	0.0022 U
1,3-Dichlorobenzene	2.4	49	0.003 UJ	0.0022 U
1,4-Dichlorobenzene	1.8	13	0.003 UJ	0.0022 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.061 U	0.0431 U
2-Hexanone	NS	NS	0.0152 U	0.0108 U
Acetone	0.05	100	0.0265	0.0085 J
Benzene	0.06	4.8	0.003 U	0.0022 U
Bromochloromethane	NS	NS	0.003 U	0.0022 U
Bromodichloromethane	NS	NS	0.003 U	0.0022 U
Bromoform	NS	NS	0.003 U	0.0022 U
Bromomethane	NS	NS	0.003 U	0.0022 U
Carbon Disulfide	NS	NS	0.003 U	0.0022 U
Carbon Tetrachloride	0.76	2.4	0.003 U	0.0022 U
Chlorobenzene	1.1	100	0.003 U	0.0022 U
Chloroethane	NS	NS	0.003 U	0.0022 U
Chloroform	0.37	49	0.003 U	0.0022 U
Chloromethane	NS	NS	0.003 U	0.0022 U
Cis-1,2-Dichloroethylene	0.25	100	0.003 U	0.0022 U
Cis-1,3-Dichloropropene	NS	NS	0.003 U	0.0022 U
Cyclohexane	NS	NS	0.003 U	0.0022 U
Dibromochloromethane	NS	NS	0.003 U	0.0022 U
Dichlorodifluoromethane	NS	NS	0.003 U	0.0022 U
Ethylbenzene	1	41	0.003 U	0.0022 U
Isopropylbenzene (Cumene)	NS	NS	0.003 UJ	0.0022 U
M,P-Xylenes	NS	NS	0.0061 U	0.0043 U
Methyl Acetate	NS	NS	0.003 U	0.0022 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0152 U	0.0108 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0152 U	0.0108 U
Methylcyclohexane	NS	NS	0.003 U	0.0022 U
Methylene Chloride	0.05	100	0.003 U	0.0026
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.003 U	0.0022 U
Styrene	NS	NS	0.003 U	0.0022 U
Tert-Butyl Methyl Ether	0.93	100	0.003 U	0.0022 U
Tetrachloroethylene (PCE)	1.3	19	0.003 U	0.0022 U
Toluene	0.7	100	0.003 U	0.0022 U
Trans-1,2-Dichloroethene	0.19	100	0.003 U	0.0022 U
Trans-1,3-Dichloropropene	NS	NS	0.003 U	0.0022 U
Trichloroethylene (TCE)	0.47	21	0.003 U	0.0022 U
Trichlorofluoromethane	NS	NS	0.003 U	0.0022 U
Vinyl Chloride	0.02	0.9	0.003 U	0.0022 U
Xylenes, Total	0.26	100	0.0091 U	0.0065 U

Table 1
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Remedial Investigation Soil Analytical Results
Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-8(0-2)-20171127 11/27/2017 1 mg/kg	SB-8(10-12)-20171127 11/27/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0031 U	0.0025 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0031 UJ	0.0025 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0031 U	0.0025 U
1,1,2-Trichloroethane	NS	NS	0.0031 U	0.0025 U
1,1-Dichloroethane	0.27	26	0.0031 U	0.0025 U
1,1-Dichloroethene	0.33	100	0.0031 U	0.0025 U
1,2,3-Trichlorobenzene	NS	NS	0.0031 UJ	0.0025 U
1,2,4-Trichlorobenzene	NS	NS	0.0031 UJ	0.0025 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0031 UJ	0.0025 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0031 U	0.0025 U
1,2-Dichlorobenzene	1.1	100	0.0031 UJ	0.0025 U
1,2-Dichloroethane	0.02	3.1	0.0031 U	0.0025 U
1,2-Dichloropropane	NS	NS	0.0031 U	0.0025 U
1,3-Dichlorobenzene	2.4	49	0.0031 UJ	0.0025 U
1,4-Dichlorobenzene	1.8	13	0.0031 UJ	0.0025 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.0627 U	0.049 U
2-Hexanone	NS	NS	0.0157 U	0.0123 U
Acetone	0.05	100	0.0157 U	0.0085 J
Benzene	0.06	4.8	0.0031 U	0.0025 U
Bromochloromethane	NS	NS	0.0031 U	0.0025 U
Bromodichloromethane	NS	NS	0.0031 U	0.0025 U
Bromoform	NS	NS	0.0031 UJ	0.0025 U
Bromomethane	NS	NS	0.0031 U	0.0025 U
Carbon Disulfide	NS	NS	0.0031 U	0.0025 U
Carbon Tetrachloride	0.76	2.4	0.0031 U	0.0025 U
Chlorobenzene	1.1	100	0.0031 UJ	0.0025 U
Chloroethane	NS	NS	0.0031 U	0.0025 U
Chloroform	0.37	49	0.0031 U	0.00058 J
Chloromethane	NS	NS	0.0031 U	0.0025 U
Cis-1,2-Dichloroethylene	0.25	100	0.0031 U	0.0025 U
Cis-1,3-Dichloropropene	NS	NS	0.0031 U	0.0025 U
Cyclohexane	NS	NS	0.0031 U	0.0025 U
Dibromochloromethane	NS	NS	0.0031 U	0.0025 U
Dichlorodifluoromethane	NS	NS	0.0031 U	0.0025 U
Ethylbenzene	1	41	0.0031 UJ	0.0025 U
Isopropylbenzene (Cumene)	NS	NS	0.0031 UJ	0.0025 U
M,P-Xylenes	NS	NS	0.0063 UJ	0.0049 U
Methyl Acetate	NS	NS	0.0031 U	0.0025 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0157 U	0.0123 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0157 U	0.0123 U
Methylcyclohexane	NS	NS	0.0031 U	0.0025 U
Methylene Chloride	0.05	100	0.0031 U	0.0025 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0031 UJ	0.0025 U
Styrene	NS	NS	0.0031 UJ	0.0025 U
Tert-Butyl Methyl Ether	0.93	100	0.0031 U	0.0025 U
Tetrachloroethylene (PCE)	1.3	19	0.0031 UJ	0.0025 U
Toluene	0.7	100	0.0031 U	0.0025 U
Trans-1,2-Dichloroethene	0.19	100	0.0031 U	0.0025 U
Trans-1,3-Dichloropropene	NS	NS	0.0031 U	0.0025 U
Trichloroethylene (TCE)	0.47	21	0.0031 U	0.0025 U
Trichlorofluoromethane	NS	NS	0.0031 U	0.0025 U
Vinyl Chloride	0.02	0.9	0.0031 U	0.0025 U
Xylenes, Total	0.26	100	0.0094 U	0.0074 U

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Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-9(0-2)-20171127 11/27/2017 1 mg/kg	SB-9(8-10)-20171127 11/27/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0035 U	0.0025 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0035 UJ	0.0025 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0035 U	0.0025 U
1,1,2-Trichloroethane	NS	NS	0.0035 U	0.0025 U
1,1-Dichloroethane	0.27	26	0.0035 U	0.0025 U
1,1-Dichloroethene	0.33	100	0.0035 U	0.0025 U
1,2,3-Trichlorobenzene	NS	NS	0.0035 UJ	0.0025 U
1,2,4-Trichlorobenzene	NS	NS	0.0035 UJ	0.0025 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0035 UJ	0.0025 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0035 U	0.0025 U
1,2-Dichlorobenzene	1.1	100	0.0035 UJ	0.0025 U
1,2-Dichloroethane	0.02	3.1	0.0035 U	0.0025 U
1,2-Dichloropropane	NS	NS	0.0035 U	0.0025 U
1,3-Dichlorobenzene	2.4	49	0.0035 UJ	0.0025 U
1,4-Dichlorobenzene	1.8	13	0.0035 UJ	0.0025 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.069 U	0.0494 U
2-Hexanone	NS	NS	0.0173 U	0.0123 U
Acetone	0.05	100	0.0173 U	0.0123 U
Benzene	0.06	4.8	0.0035 U	0.0025 U
Bromochloromethane	NS	NS	0.0035 U	0.0025 U
Bromodichloromethane	NS	NS	0.0035 U	0.0025 U
Bromoform	NS	NS	0.0035 U	0.0025 U
Bromomethane	NS	NS	0.0035 U	0.0025 U
Carbon Disulfide	NS	NS	0.0035 U	0.0025 U
Carbon Tetrachloride	0.76	2.4	0.0035 U	0.0025 U
Chlorobenzene	1.1	100	0.0035 U	0.0025 U
Chloroethane	NS	NS	0.0035 U	0.0025 U
Chloroform	0.37	49	0.0035 U	0.0025 U
Chloromethane	NS	NS	0.0035 U	0.0025 U
Cis-1,2-Dichloroethylene	0.25	100	0.0035 U	0.0025 U
Cis-1,3-Dichloropropene	NS	NS	0.0035 U	0.0025 U
Cyclohexane	NS	NS	0.0035 U	0.0025 U
Dibromochloromethane	NS	NS	0.0035 U	0.0025 U
Dichlorodifluoromethane	NS	NS	0.0035 U	0.0025 U
Ethylbenzene	1	41	0.0035 U	0.0025 U
Isopropylbenzene (Cumene)	NS	NS	0.0035 UJ	0.0025 U
M,P-Xylenes	NS	NS	0.0069 U	0.0049 U
Methyl Acetate	NS	NS	0.0035 U	0.0025 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0173 U	0.0123 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0173 U	0.0123 U
Methylcyclohexane	NS	NS	0.0035 U	0.0025 U
Methylene Chloride	0.05	100	0.0035 U	0.0026
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0035 U	0.0025 U
Styrene	NS	NS	0.0035 U	0.0025 U
Tert-Butyl Methyl Ether	0.93	100	0.0035 U	0.0025 U
Tetrachloroethylene (PCE)	1.3	19	0.0035 U	0.0025 U
Toluene	0.7	100	0.0035 U	0.0025 U
Trans-1,2-Dichloroethene	0.19	100	0.0035 U	0.0025 U
Trans-1,3-Dichloropropene	NS	NS	0.0035 U	0.0025 U
Trichloroethylene (TCE)	0.47	21	0.0035 U	0.0025 U
Trichlorofluoromethane	NS	NS	0.0035 U	0.0025 U
Vinyl Chloride	0.02	0.9	0.0035 U	0.0025 U
Xylenes, Total	0.26	100	0.0104 U	0.0074 U

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Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-10(0-2)-20171127 11/27/2017 1 mg/kg	SB-X(0-2)-20171127 11/27/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0025 U	0.0025 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0025 UJ	0.0025 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0025 U	0.0025 U
1,1,2-Trichloroethane	NS	NS	0.0025 U	0.0025 U
1,1-Dichloroethane	0.27	26	0.0025 U	0.0025 U
1,1-Dichloroethene	0.33	100	0.0025 U	0.0025 U
1,2,3-Trichlorobenzene	NS	NS	0.0025 UJ	0.0025 U
1,2,4-Trichlorobenzene	NS	NS	0.0025 UJ	0.0025 UJ
1,2-Dibromo-3-Chloropropane	NS	NS	0.0025 UJ	0.0025 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0025 U	0.0025 U
1,2-Dichlorobenzene	1.1	100	0.0025 UJ	0.0025 UJ
1,2-Dichloroethane	0.02	3.1	0.0025 U	0.0025 U
1,2-Dichloropropane	NS	NS	0.0025 U	0.0025 U
1,3-Dichlorobenzene	2.4	49	0.0025 UJ	0.0025 UJ
1,4-Dichlorobenzene	1.8	13	0.0025 UJ	0.0025 UJ
1,4-Dioxane (P-Dioxane)	0.1	13	0.0497 U	0.0496 U
2-Hexanone	NS	NS	0.0124 U	0.0124 U
Acetone	0.05	100	0.012 J	0.0121 J
Benzene	0.06	4.8	0.0025 U	0.0025 U
Bromochloromethane	NS	NS	0.0025 U	0.0025 U
Bromodichloromethane	NS	NS	0.0025 U	0.0025 U
Bromoform	NS	NS	0.0025 U	0.0025 U
Bromomethane	NS	NS	0.0025 U	0.0025 U
Carbon Disulfide	NS	NS	0.0025 U	0.0025 U
Carbon Tetrachloride	0.76	2.4	0.0025 U	0.0025 U
Chlorobenzene	1.1	100	0.0025 U	0.0025 U
Chloroethane	NS	NS	0.0025 U	0.0025 U
Chloroform	0.37	49	0.0025 U	0.0025 U
Chloromethane	NS	NS	0.0025 U	0.0025 U
Cis-1,2-Dichloroethylene	0.25	100	0.0025 U	0.0025 U
Cis-1,3-Dichloropropene	NS	NS	0.0025 U	0.0025 U
Cyclohexane	NS	NS	0.0025 U	0.0025 U
Dibromochloromethane	NS	NS	0.0025 U	0.0025 U
Dichlorodifluoromethane	NS	NS	0.0025 U	0.0025 U
Ethylbenzene	1	41	0.0025 U	0.0025 U
Isopropylbenzene (Cumene)	NS	NS	0.0025 UJ	0.0025 UJ
M,P-Xylenes	NS	NS	0.005 U	0.005 U
Methyl Acetate	NS	NS	0.0025 U	0.0025 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0124 U	0.0124 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0124 U	0.0124 U
Methylcyclohexane	NS	NS	0.0025 U	0.0025 U
Methylene Chloride	0.05	100	0.00095 J	0.0015 J
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0025 U	0.0025 U
Styrene	NS	NS	0.0025 U	0.0025 U
Tert-Butyl Methyl Ether	0.93	100	0.0025 U	0.0025 U
Tetrachloroethylene (PCE)	1.3	19	0.0025 U	0.0025 U
Toluene	0.7	100	0.0025 U	0.0025 U
Trans-1,2-Dichloroethene	0.19	100	0.0025 U	0.0025 U
Trans-1,3-Dichloropropene	NS	NS	0.0025 U	0.0025 U
Trichloroethylene (TCE)	0.47	21	0.0025 U	0.0025 U
Trichlorofluoromethane	NS	NS	0.0025 U	0.0025 U
Vinyl Chloride	0.02	0.9	0.0025 U	0.0025 U
Xylenes, Total	0.26	100	0.0075 U	0.0075 U

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Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-10(8-10)-20171127 11/27/2017 1 mg/kg	SB-11(0-2)-20171129 11/29/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0025 U	0.0025 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0025 U	0.0025 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0025 U	0.0025 U
1,1,2-Trichloroethane	NS	NS	0.0025 U	0.0025 U
1,1-Dichloroethane	0.27	26	0.0025 U	0.0025 U
1,1-Dichloroethene	0.33	100	0.0025 U	0.0025 U
1,2,3-Trichlorobenzene	NS	NS	0.0025 U	0.0025 UJ
1,2,4-Trichlorobenzene	NS	NS	0.0025 U	0.0025 UJ
1,2-Dibromo-3-Chloropropane	NS	NS	0.0025 U	0.0025 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0025 U	0.0025 U
1,2-Dichlorobenzene	1.1	100	0.0025 U	0.0025 UJ
1,2-Dichloroethane	0.02	3.1	0.0025 U	0.0025 U
1,2-Dichloropropane	NS	NS	0.0025 U	0.0025 U
1,3-Dichlorobenzene	2.4	49	0.0025 U	0.0025 UJ
1,4-Dichlorobenzene	1.8	13	0.0025 U	0.0025 UJ
1,4-Dioxane (P-Dioxane)	0.1	13	0.051 U	0.0505 U
2-Hexanone	NS	NS	0.0127 U	0.0126 U
Acetone	0.05	100	0.0127 U	0.0126 U
Benzene	0.06	4.8	0.0025 U	0.0025 U
Bromochloromethane	NS	NS	0.0025 U	0.0025 U
Bromodichloromethane	NS	NS	0.0025 U	0.0025 U
Bromoform	NS	NS	0.0025 U	0.0025 U
Bromomethane	NS	NS	0.0025 U	0.0025 U
Carbon Disulfide	NS	NS	0.0025 U	0.0025 U
Carbon Tetrachloride	0.76	2.4	0.0025 U	0.0025 U
Chlorobenzene	1.1	100	0.0025 U	0.0025 U
Chloroethane	NS	NS	0.0025 U	0.0025 U
Chloroform	0.37	49	0.00066 J	0.0025 U
Chloromethane	NS	NS	0.0025 U	0.0025 U
Cis-1,2-Dichloroethylene	0.25	100	0.0025 U	0.0025 U
Cis-1,3-Dichloropropene	NS	NS	0.0025 U	0.0025 U
Cyclohexane	NS	NS	0.0025 U	0.0025 U
Dibromochloromethane	NS	NS	0.0025 U	0.0025 U
Dichlorodifluoromethane	NS	NS	0.0025 U	0.0025 U
Ethylbenzene	1	41	0.0025 U	0.0025 U
Isopropylbenzene (Cumene)	NS	NS	0.0025 U	0.0025 UJ
M,P-Xylenes	NS	NS	0.0051 U	0.005 U
Methyl Acetate	NS	NS	0.0025 U	0.0025 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0127 U	0.0126 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0127 U	0.0126 U
Methylcyclohexane	NS	NS	0.0025 U	0.0025 U
Methylene Chloride	0.05	100	0.0025 U	0.0025 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0025 U	0.0025 U
Styrene	NS	NS	0.0025 U	0.0025 U
Tert-Butyl Methyl Ether	0.93	100	0.0025 U	0.0025 U
Tetrachloroethylene (PCE)	1.3	19	0.0025 U	0.0025 U
Toluene	0.7	100	0.0025 U	0.0025 U
Trans-1,2-Dichloroethene	0.19	100	0.0025 U	0.0025 U
Trans-1,3-Dichloropropene	NS	NS	0.0025 U	0.0025 U
Trichloroethylene (TCE)	0.47	21	0.0025 U	0.0025 U
Trichlorofluoromethane	NS	NS	0.0025 U	0.0025 U
Vinyl Chloride	0.02	0.9	0.0025 U	0.0025 U
Xylenes, Total	0.26	100	0.0076 U	0.0075 U

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Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-11(6-8)-20171129 11/29/2017 1 mg/kg	SB-12(0-2)-20171127 11/27/2017 1 mg/kg
1,1,1-Trichloroethane	0.68	100	0.0042 U	0.0042 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0042 UJ	0.0042 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0042 U	0.0042 U
1,1,2-Trichloroethane	NS	NS	0.0042 U	0.0042 U
1,1-Dichloroethane	0.27	26	0.0042 U	0.0042 U
1,1-Dichloroethene	0.33	100	0.0042 U	0.0042 U
1,2,3-Trichlorobenzene	NS	NS	0.0042 UJ	0.0042 U
1,2,4-Trichlorobenzene	NS	NS	0.0042 UJ	0.0042 UJ
1,2-Dibromo-3-Chloropropane	NS	NS	0.0042 UJ	0.0042 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0042 U	0.0042 U
1,2-Dichlorobenzene	1.1	100	0.0042 UJ	0.0042 UJ
1,2-Dichloroethane	0.02	3.1	0.0042 U	0.0042 U
1,2-Dichloropropane	NS	NS	0.0042 U	0.0042 U
1,3-Dichlorobenzene	2.4	49	0.0042 UJ	0.0042 UJ
1,4-Dichlorobenzene	1.8	13	0.0042 UJ	0.0042 UJ
1,4-Dioxane (P-Dioxane)	0.1	13	0.085 U	0.084 U
2-Hexanone	NS	NS	0.0212 U	0.021 U
Acetone	0.05	100	0.0212 U	0.0098 J
Benzene	0.06	4.8	0.0042 U	0.0042 U
Bromochloromethane	NS	NS	0.0042 U	0.0042 U
Bromodichloromethane	NS	NS	0.0042 U	0.0042 U
Bromoform	NS	NS	0.0042 UJ	0.0042 U
Bromomethane	NS	NS	0.0042 U	0.0042 U
Carbon Disulfide	NS	NS	0.0042 U	0.0042 U
Carbon Tetrachloride	0.76	2.4	0.0042 U	0.0042 U
Chlorobenzene	1.1	100	0.0042 UJ	0.0042 U
Chloroethane	NS	NS	0.0042 U	0.0042 U
Chloroform	0.37	49	0.0042 U	0.00089 J
Chloromethane	NS	NS	0.0042 U	0.0042 U
Cis-1,2-Dichloroethylene	0.25	100	0.0042 U	0.0042 U
Cis-1,3-Dichloropropene	NS	NS	0.0042 U	0.0042 U
Cyclohexane	NS	NS	0.0042 U	0.0042 U
Dibromochloromethane	NS	NS	0.0042 U	0.0042 U
Dichlorodifluoromethane	NS	NS	0.0042 U	0.0042 U
Ethylbenzene	1	41	0.0042 UJ	0.0042 U
Isopropylbenzene (Cumene)	NS	NS	0.0042 UJ	0.0042 UJ
M,P-Xylenes	NS	NS	0.0085 UJ	0.0084 U
Methyl Acetate	NS	NS	0.0042 U	0.0042 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0212 U	0.021 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0212 U	0.021 U
Methylcyclohexane	NS	NS	0.0042 U	0.0042 U
Methylene Chloride	0.05	100	0.0042 U	0.0049
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0042 UJ	0.0042 U
Styrene	NS	NS	0.0042 UJ	0.0042 U
Tert-Butyl Methyl Ether	0.93	100	0.0042 U	0.0042 U
Tetrachloroethylene (PCE)	1.3	19	0.0042 UJ	0.0042 U
Toluene	0.7	100	0.0042 U	0.0042 U
Trans-1,2-Dichloroethene	0.19	100	0.0042 U	0.0042 U
Trans-1,3-Dichloropropene	NS	NS	0.0042 U	0.0042 U
Trichloroethylene (TCE)	0.47	21	0.0042 U	0.0042 U
Trichlorofluoromethane	NS	NS	0.0042 U	0.0042 U
Vinyl Chloride	0.02	0.9	0.0042 U	0.0042 U
Xylenes, Total	0.26	100	0.0127 U	0.0126 U

Table 1
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-12(10-12)-20171127 11/27/2017 1 mg/kg	FB-20171128 11/28/2017 1 ug/l	TB-20171127 11/20/2017 1 ug/l
1,1,1-Trichloroethane	0.68	100	0.0034 U	5 U	5 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0034 UJ	5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0034 U	5 U	5 U
1,1,2-Trichloroethane	NS	NS	0.0034 U	5 U	5 U
1,1-Dichloroethane	0.27	26	0.0034 U	5 U	5 U
1,1-Dichloroethene	0.33	100	0.0034 U	5 U	5 U
1,2,3-Trichlorobenzene	NS	NS	0.0034 UJ	5 UJ	5 UJ
1,2,4-Trichlorobenzene	NS	NS	0.0034 UJ	5 U	5 UJ
1,2-Dibromo-3-Chloropropane	NS	NS	0.0034 UJ	5 U	5 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0034 U	5 U	5 U
1,2-Dichlorobenzene	1.1	100	0.0034 UJ	5 U	5 U
1,2-Dichloroethane	0.02	3.1	0.0034 U	5 U	5 U
1,2-Dichloropropane	NS	NS	0.0034 U	5 U	5 U
1,3-Dichlorobenzene	2.4	49	0.0034 UJ	5 U	5 U
1,4-Dichlorobenzene	1.8	13	0.0034 UJ	5 U	5 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.0682 U	100 U	100 U
2-Hexanone	NS	NS	0.017 U	25 U	25 U
Acetone	0.05	100	0.024	3.1 J	25 U
Benzene	0.06	4.8	0.0034 U	5 U	5 U
Bromochloromethane	NS	NS	0.0034 U	5 U	5 U
Bromodichloromethane	NS	NS	0.0034 U	5 U	5 U
Bromoform	NS	NS	0.0034 UJ	5 U	5 U
Bromomethane	NS	NS	0.0034 U	5 U	5 U
Carbon Disulfide	NS	NS	0.0034 U	5 U	5 U
Carbon Tetrachloride	0.76	2.4	0.0034 U	5 U	5 U
Chlorobenzene	1.1	100	0.0034 UJ	5 U	5 U
Chloroethane	NS	NS	0.0034 U	5 U	5 U
Chloroform	0.37	49	0.0034 U	5 U	5 U
Chloromethane	NS	NS	0.0034 U	5 U	5 U
Cis-1,2-Dichloroethylene	0.25	100	0.0034 U	5 U	5 U
Cis-1,3-Dichloropropene	NS	NS	0.0034 U	5 U	5 U
Cyclohexane	NS	NS	0.0034 U	5 UJ	5 U
Dibromochloromethane	NS	NS	0.0034 U	5 U	5 U
Dichlorodifluoromethane	NS	NS	0.0034 U	5 U	5 U
Ethylbenzene	1	41	0.0034 UJ	5 U	5 U
Isopropylbenzene (Cumene)	NS	NS	0.0034 UJ	5 U	5 U
M,P-Xylenes	NS	NS	0.0068 UJ	10 U	10 U
Methyl Acetate	NS	NS	0.0034 U	5 U	5 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.017 U	25 U	25 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.017 U	25 U	25 U
Methylcyclohexane	NS	NS	0.0034 U	5 U	5 U
Methylene Chloride	0.05	100	0.0017 J	5 U	5 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0034 UJ	5 U	5 U
Styrene	NS	NS	0.0034 UJ	5 U	5 U
Tert-Butyl Methyl Ether	0.93	100	0.0034 U	5 U	5 U
Tetrachloroethylene (PCE)	1.3	19	0.0034 UJ	5 U	5 U
Toluene	0.7	100	0.0034 U	5 U	5 U
Trans-1,2-Dichloroethene	0.19	100	0.0034 U	5 U	5 U
Trans-1,3-Dichloropropene	NS	NS	0.0034 U	5 U	5 U
Trichloroethylene (TCE)	0.47	21	0.0034 U	5 U	5 U
Trichlorofluoromethane	NS	NS	0.0034 U	5 U	5 U
Vinyl Chloride	0.02	0.9	0.0034 U	5 U	5 U
Xylenes, Total	0.26	100	0.0102 U	15 U	15 U

Table 2
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-1(0-2)-20171128 11/28/2017 1 mg/kg	SB-1(6-8)-20171128 11/28/2017 1 mg/kg	SB-2(0-2)-20171127 11/27/2017 1 mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.38 U	0.36 U	0.36 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.38 U	0.36 U	0.36 U
2,4,5-Trichlorophenol	NS	NS	0.38 U	0.36 U	0.36 U
2,4,6-Trichlorophenol	NS	NS	0.38 U	0.36 U	0.36 U
2,4-Dichlorophenol	NS	NS	0.38 U	0.36 U	0.36 U
2,4-Dimethylphenol	NS	NS	0.38 U	0.36 U	0.36 U
2,4-Dinitrophenol	NS	NS	0.38 UJ	0.36 UJ	0.36 UJ
2,4-Dinitrotoluene	NS	NS	0.38 U	0.36 U	0.36 U
2,6-Dinitrotoluene	NS	NS	0.38 U	0.36 U	0.36 U
2-Chloronaphthalene	NS	NS	0.38 U	0.36 U	0.36 U
2-Chlorophenol	NS	NS	0.38 U	0.36 U	0.36 U
2-Methylnaphthalene	NS	NS	0.38 U	0.36 U	0.36 U
2-Methylphenol (O-Cresol)	0.33	100	0.38 U	0.36 U	0.36 U
2-Nitroaniline	NS	NS	0.38 U	0.36 U	0.36 U
2-Nitrophenol	NS	NS	0.38 U	0.36 U	0.36 U
3,3'-Dichlorobenzidine	NS	NS	0.38 U	0.36 U	0.36 U
3-Methylphenol/4-Methylphenol	NS	NS	0.38 U	0.36 U	0.36 U
3-Nitroaniline	NS	NS	0.38 U	0.36 U	0.36 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.38 UJ	0.36 UJ	0.36 U
4-Bromophenyl Phenyl Ether	NS	NS	0.38 U	0.36 U	0.36 U
4-Chloro-3-Methylphenol	NS	NS	0.38 U	0.36 U	0.36 U
4-Chloroaniline	NS	NS	0.38 U	0.36 U	0.36 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.38 U	0.36 U	0.36 U
4-Nitroaniline	NS	NS	0.38 U	0.36 U	0.36 U
4-Nitrophenol	NS	NS	0.38 U	0.36 U	0.36 U
Acenaphthene	20	100	0.38 U	0.11 J	0.36 U
Acenaphthylene	100	100	0.0989 J	0.0902 J	0.36 U
Acetophenone	NS	NS	0.38 U	0.36 U	0.36 U
Anthracene	100	100	0.17 J	0.33 J	0.36 U
Atrazine	NS	NS	0.38 U	0.36 U	0.36 U
Benzaldehyde	NS	NS	0.38 U	0.36 U	0.36 U
Benzo(a)Anthracene	1	1	0.75	**1.4**	0.36 U
Benzo(a)Pyrene	1	1	0.93	**1.2**	0.36 U
Benzo(b)Fluoranthene	1	1	**1.1**	**1.3**	0.36 U
Benzo(g,h,i)Perylene	100	100	0.83	0.69	0.36 U
Benzo(k)Fluoranthene	0.8	3.9	0.47	0.58	0.36 U
Benzyl Butyl Phthalate	NS	NS	0.38 U	0.36 U	0.36 U
Biphenyl (Diphenyl)	NS	NS	0.38 U	0.36 U	0.36 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.38 U	0.36 U	0.36 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.38 U	0.36 U	0.36 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.38 U	0.36 U	0.36 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.38 U	0.36 U	0.36 U
Caprolactam	NS	NS	0.38 U	0.36 U	0.36 U
Carbazole	NS	NS	0.0833 J	0.14 J	0.36 U
Chrysene	1	3.9	0.75	**1.3**	0.36 U
Dibenz(a,h)Anthracene	0.33	0.33	0.22 J	0.21 J	0.36 U
Dibenzofuran	7	59	0.38 U	0.36 U	0.36 U
Diethyl Phthalate	NS	NS	0.38 U	0.36 U	0.36 U
Dimethyl Phthalate	NS	NS	0.38 U	0.36 U	0.15 J
Di-N-Butyl Phthalate	NS	NS	0.38 U	0.36 U	0.36 U
Di-N-Octylphthalate	NS	NS	0.38 U	0.36 U	0.36 U
Fluoranthene	100	100	1.1	1.9	0.36 U
Fluorene	30	100	0.38 U	0.12 J	0.36 U
Hexachlorobenzene	0.33	1.2	0.38 U	0.36 U	0.36 U
Hexachlorobutadiene	NS	NS	0.38 U	0.36 U	0.36 U
Hexachlorocyclopentadiene	NS	NS	0.38 UJ	0.36 UJ	0.36 UJ
Hexachloroethane	NS	NS	0.38 U	0.36 U	0.36 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**0.83**	**0.65**	0.36 U
Isophorone	NS	NS	0.38 U	0.36 U	0.36 U
Naphthalene	12	100	0.38 U	0.36 U	0.36 U
Nitrobenzene	NS	NS	0.38 U	0.36 U	0.36 U
N-Nitrosodi-N-Propylamine	NS	NS	0.38 U	0.36 U	0.36 U
N-Nitrosodiphenylamine	NS	NS	0.38 U	0.36 U	0.36 U
Pentachlorophenol	0.8	6.7	0.38 UJ	0.36 UJ	0.36 U
Phenanthrene	100	100	0.62	1.8	0.36 U
Phenol	0.33	100	0.13 J	0.11 J	0.11 J
Pyrene	100	100	1.3	2.6	0.36 U

Table 2
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-2(10-12)-20171127 11/27/2017 1 mg/kg	SB-3(0-2)-20171127 11/27/2017 10 mg/kg	SB-3(10-12)-20171127 11/27/2017 5 mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	3.6 U	1.8 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	3.6 U	1.8 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	3.6 U	1.8 U
2,4,6-Trichlorophenol	NS	NS	0.35 U	3.6 U	1.8 U
2,4-Dichlorophenol	NS	NS	0.35 U	3.6 U	1.8 U
2,4-Dimethylphenol	NS	NS	0.35 U	3.6 U	1.8 U
2,4-Dinitrophenol	NS	NS	0.35 UJ	3.6 UJ	1.8 U
2,4-Dinitrotoluene	NS	NS	0.35 UJ	3.6 U	1.8 U
2,6-Dinitrotoluene	NS	NS	0.35 U	3.6 U	1.8 U
2-Chloronaphthalene	NS	NS	0.35 U	3.6 U	1.8 U
2-Chlorophenol	NS	NS	0.35 U	3.6 U	1.8 U
2-Methylnaphthalene	NS	NS	0.35 U	1.1 J	1.8 U
2-Methylphenol (O-Cresol)	0.33	100	0.35 U	3.6 U	1.8 U
2-Nitroaniline	NS	NS	0.35 U	3.6 U	1.8 U
2-Nitrophenol	NS	NS	0.35 UJ	3.6 UJ	1.8 U
3,3'-Dichlorobenzidine	NS	NS	0.35 U	3.6 U	1.8 U
3-Methylphenol/4-Methylphenol	NS	NS	0.35 U	3.6 U	1.8 U
3-Nitroaniline	NS	NS	0.35 U	3.6 U	1.8 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.35 UJ	3.6 UJ	1.8 U
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	3.6 U	1.8 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	3.6 U	1.8 U
4-Chloroaniline	NS	NS	0.35 U	3.6 U	1.8 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	3.6 U	1.8 U
4-Nitroaniline	NS	NS	0.35 U	3.6 U	1.8 U
4-Nitrophenol	NS	NS	0.35 U	3.6 U	1.8 U
Acenaphthene	20	100	0.35 U	3.6	1.8 U
Acenaphthylene	100	100	0.35 U	3.8	1.8 U
Acetophenone	NS	NS	0.35 U	3.6 U	1.8 U
Anthracene	100	100	0.35 U	11.6	1.8 U
Atrazine	NS	NS	0.35 U	3.6 U	1.8 U
Benzaldehyde	NS	NS	0.35 U	3.6 U	1.8 U
Benzo(a)Anthracene	1	1	0.35 U	**41.8 D**	0.76 J
Benzo(a)Pyrene	1	1	0.35 U	**39.5 D**	0.79 J
Benzo(b)Fluoranthene	1	1	0.35 U	**54.5 D**	1 J
Benzo(g,h,i)Perylene	100	100	0.35 U	23.5	0.74 J
Benzo(k)Fluoranthene	0.8	3.9	0.35 U	**16**	1.8 U
Benzyl Butyl Phthalate	NS	NS	0.35 U	3.6 U	1.3 J
Biphenyl (Diphenyl)	NS	NS	0.35 U	3.6 U	1.8 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	3.6 U	1.8 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.35 U	3.6 U	1.8 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	3.6 U	1.8 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.11 J	3.6 UJ	1.8 U
Caprolactam	NS	NS	0.35 U	3.6 U	1.8 U
Carbazole	NS	NS	0.35 U	3.9	1.8 U
Chrysene	1	3.9	0.35 U	**39.6 D**	0.84 J
Dibenz(a,h)Anthracene	0.33	0.33	0.35 U	**6.1**	1.8 U
Dibenzofuran	7	59	0.35 U	2.6 J	1.8 U
Diethyl Phthalate	NS	NS	0.35 U	3.6 U	1.8 U
Dimethyl Phthalate	NS	NS	0.14 J	3.6 U	1.8 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	3.6 U	1.8 U
Di-N-Octylphthalate	NS	NS	0.35 U	3.6 U	1.8 U
Fluoranthene	100	100	0.35 U	84.1 D	1.3 J
Fluorene	30	100	0.35 U	5.1	1.8 U
Hexachlorobenzene	0.33	1.2	0.35 U	3.6 U	1.8 U
Hexachlorobutadiene	NS	NS	0.35 U	3.6 U	1.8 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	3.6 U	1.8 U
Hexachloroethane	NS	NS	0.35 U	3.6 U	1.8 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.35 U	**18.5**	**0.57 J**
Isophorone	NS	NS	0.35 U	3.6 U	1.8 U
Naphthalene	12	100	0.35 U	1.7 J	1.8 U
Nitrobenzene	NS	NS	0.35 U	3.6 U	1.8 U
N-Nitrosodi-N-Propylamine	NS	NS	0.35 U	3.6 U	1.8 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	3.6 U	1.8 U
Pentachlorophenol	0.8	6.7	0.35 U	3.6 U	1.8 U
Phenanthrene	100	100	0.35 U	56.3 D	0.88 J
Phenol	0.33	100	0.0958 J	3.6 U	1.8 U
Pyrene	100	100	0.35 U	68.1 D	1.6 J

Table 2
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-4(0-2)-20171128 11/28/2017 1 mg/kg	SB-4(10-12)-20171128 11/28/2017 1 mg/kg	SB-5(0-2)-20171127 11/27/2017 1 mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	0.34 U	0.37 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	0.34 U	0.37 U
2,4,5-Trichlorophenol	NS	NS	0.36 U	0.34 U	0.37 U
2,4,6-Trichlorophenol	NS	NS	0.36 U	0.34 U	0.37 U
2,4-Dichlorophenol	NS	NS	0.36 U	0.34 U	0.37 U
2,4-Dimethylphenol	NS	NS	0.36 U	0.34 U	0.37 U
2,4-Dinitrophenol	NS	NS	0.36 UJ	0.34 UJ	0.37 UJ
2,4-Dinitrotoluene	NS	NS	0.36 U	0.34 U	0.37 UJ
2,6-Dinitrotoluene	NS	NS	0.36 U	0.34 U	0.37 U
2-Chloronaphthalene	NS	NS	0.36 U	0.34 U	0.37 U
2-Chlorophenol	NS	NS	0.36 U	0.34 U	0.37 U
2-Methylnaphthalene	NS	NS	0.36 U	0.34 U	0.37 U
2-Methylphenol (O-Cresol)	0.33	100	0.36 U	0.34 U	0.37 U
2-Nitroaniline	NS	NS	0.36 U	0.34 U	0.37 U
2-Nitrophenol	NS	NS	0.36 U	0.34 U	0.37 UJ
3,3'-Dichlorobenzidine	NS	NS	0.36 U	0.34 U	0.37 U
3-Methylphenol/4-Methylphenol	NS	NS	0.36 U	0.34 U	0.37 U
3-Nitroaniline	NS	NS	0.36 U	0.34 U	0.37 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.36 UJ	0.34 UJ	0.37 UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	0.34 U	0.37 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	0.34 U	0.37 U
4-Chloroaniline	NS	NS	0.36 U	0.34 U	0.37 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	0.34 U	0.37 U
4-Nitroaniline	NS	NS	0.36 U	0.34 U	0.37 U
4-Nitrophenol	NS	NS	0.36 U	0.34 U	0.37 U
Acenaphthene	20	100	0.36 U	0.34 U	0.11 J
Acenaphthylene	100	100	0.36 U	0.34 U	0.0798 J
Acetophenone	NS	NS	0.36 U	0.34 U	0.37 U
Anthracene	100	100	0.36 U	0.34 U	0.37
Atrazine	NS	NS	0.36 U	0.34 U	0.37 U
Benzaldehyde	NS	NS	0.36 U	0.34 U	0.37 U
Benzo(a)Anthracene	1	1	0.2 J	0.34 U	**1.2**
Benzo(a)Pyrene	1	1	0.2 J	0.34 U	1
Benzo(b)Fluoranthene	1	1	0.27 J	0.34 U	**1.4**
Benzo(g,h,i)Perylene	100	100	0.15 J	0.34 U	0.6
Benzo(k)Fluoranthene	0.8	3.9	0.0891 J	0.34 U	0.49
Benzyl Butyl Phthalate	NS	NS	0.36 U	0.34 U	0.0954 J
Biphenyl (Diphenyl)	NS	NS	0.36 U	0.34 U	0.37 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	0.34 U	0.37 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.36 U	0.34 U	0.37 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	0.34 U	0.37 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	0.34 U	0.11 J
Caprolactam	NS	NS	0.36 U	0.34 U	0.37 U
Carbazole	NS	NS	0.36 U	0.34 U	0.18 J
Chrysene	1	3.9	0.19 J	0.34 U	1
Dibenz(a,h)Anthracene	0.33	0.33	0.36 U	0.34 U	0.17 J
Dibenzofuran	7	59	0.36 U	0.34 U	0.0842 J
Diethyl Phthalate	NS	NS	0.36 U	0.34 U	0.37 U
Dimethyl Phthalate	NS	NS	0.36 U	0.34 U	0.2 J
Di-N-Butyl Phthalate	NS	NS	0.36 U	0.34 U	0.37 U
Di-N-Octylphthalate	NS	NS	0.36 U	0.34 U	0.37 U
Fluoranthene	100	100	0.32 J	0.34 U	2.4
Fluorene	30	100	0.36 U	0.34 U	0.12 J
Hexachlorobenzene	0.33	1.2	0.36 U	0.34 U	0.37 U
Hexachlorobutadiene	NS	NS	0.36 U	0.34 U	0.37 U
Hexachlorocyclopentadiene	NS	NS	0.36 UJ	0.34 UJ	0.37 U
Hexachloroethane	NS	NS	0.36 U	0.34 U	0.37 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.36 U	0.34 U	**0.52**
Isophorone	NS	NS	0.36 U	0.34 U	0.37 U
Naphthalene	12	100	0.36 U	0.34 U	0.37 U
Nitrobenzene	NS	NS	0.36 U	0.34 U	0.37 U
N-Nitrosodi-N-Propylamine	NS	NS	0.36 U	0.34 U	0.37 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	0.34 U	0.37 U
Pentachlorophenol	0.8	6.7	0.36 UJ	0.34 UJ	0.37 U
Phenanthrene	100	100	0.19 J	0.34 U	1.8
Phenol	0.33	100	0.0976 J	0.11 J	0.11 J
Pyrene	100	100	0.34 J	0.34 U	1.7

Table 2
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-5(10-12)-20171127 11/27/2017 1 mg/kg	SB-6(0-2)-20171128 11/28/2017 1 mg/kg	SB-6(5-7)-20171128 11/28/2017 1 mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.35 U	0.36 U	0.38 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.35 U	0.36 U	0.38 U
2,4,5-Trichlorophenol	NS	NS	0.35 U	0.36 U	0.38 U
2,4,6-Trichlorophenol	NS	NS	0.35 U	0.36 U	0.38 U
2,4-Dichlorophenol	NS	NS	0.35 U	0.36 U	0.38 U
2,4-Dimethylphenol	NS	NS	0.35 U	0.36 U	0.38 U
2,4-Dinitrophenol	NS	NS	0.35 UJ	0.36 UJ	0.38 UJ
2,4-Dinitrotoluene	NS	NS	0.35 UJ	0.36 U	0.38 U
2,6-Dinitrotoluene	NS	NS	0.35 U	0.36 U	0.38 U
2-Chloronaphthalene	NS	NS	0.35 U	0.36 U	0.38 U
2-Chlorophenol	NS	NS	0.35 U	0.36 U	0.38 U
2-Methylnaphthalene	NS	NS	0.35 U	0.36 U	0.38 U
2-Methylphenol (O-Cresol)	0.33	100	0.35 U	0.36 U	0.38 U
2-Nitroaniline	NS	NS	0.35 U	0.36 U	0.38 U
2-Nitrophenol	NS	NS	0.35 UJ	0.36 U	0.38 U
3,3'-Dichlorobenzidine	NS	NS	0.35 U	0.36 U	0.38 U
3-Methylphenol/4-Methylphenol	NS	NS	0.35 U	0.36 U	0.38 U
3-Nitroaniline	NS	NS	0.35 U	0.36 U	0.38 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.35 UJ	0.36 UJ	0.38 UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.35 U	0.36 U	0.38 U
4-Chloro-3-Methylphenol	NS	NS	0.35 U	0.36 U	0.38 U
4-Chloroaniline	NS	NS	0.35 U	0.36 U	0.38 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.35 U	0.36 U	0.38 U
4-Nitroaniline	NS	NS	0.35 U	0.36 U	0.38 U
4-Nitrophenol	NS	NS	0.35 U	0.36 U	0.38 U
Acenaphthene	20	100	0.35 U	0.36 U	0.38 U
Acenaphthylene	100	100	0.35 U	0.0841 J	0.38 U
Acetophenone	NS	NS	0.35 U	0.36 U	0.38 U
Anthracene	100	100	0.12 J	0.29 J	0.38 U
Atrazine	NS	NS	0.35 U	0.36 U	0.38 U
Benzaldehyde	NS	NS	0.35 U	0.36 U	0.38 U
Benzo(a)Anthracene	1	1	0.39	0.97	0.26 J
Benzo(a)Pyrene	1	1	0.29 J	1	0.33 J
Benzo(b)Fluoranthene	1	1	0.42	**1.3**	0.45
Benzo(g,h,i)Perylene	100	100	0.18 J	0.64	0.26 J
Benzo(k)Fluoranthene	0.8	3.9	0.14 J	0.51	0.18 J
Benzyl Butyl Phthalate	NS	NS	0.35 U	0.36 U	0.38 U
Biphenyl (Diphenyl)	NS	NS	0.35 U	0.36 U	0.38 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.35 U	0.36 U	0.38 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.35 U	0.36 U	0.38 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.35 U	0.36 U	0.38 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.0888 J	0.0891 J	0.14 J
Caprolactam	NS	NS	0.35 U	0.36 U	0.38 U
Carbazole	NS	NS	0.35 U	0.12 J	0.38 U
Chrysene	1	3.9	0.37	0.94	0.28 J
Dibenz(a,h)Anthracene	0.33	0.33	0.35 U	0.16 J	0.38 U
Dibenzofuran	7	59	0.35 U	0.36 U	0.38 U
Diethyl Phthalate	NS	NS	0.35 U	0.36 U	0.38 U
Dimethyl Phthalate	NS	NS	0.17 J	0.36 U	0.38 U
Di-N-Butyl Phthalate	NS	NS	0.35 U	0.36 U	0.38 U
Di-N-Octylphthalate	NS	NS	0.35 U	0.36 U	0.38 U
Fluoranthene	100	100	0.88	1.6	0.44
Fluorene	30	100	0.35 U	0.0928 J	0.38 U
Hexachlorobenzene	0.33	1.2	0.35 U	0.36 U	0.38 U
Hexachlorobutadiene	NS	NS	0.35 U	0.36 U	0.38 U
Hexachlorocyclopentadiene	NS	NS	0.35 U	0.36 UJ	0.38 UJ
Hexachloroethane	NS	NS	0.35 U	0.36 U	0.38 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.18 J	**0.59**	0.21 J
Isophorone	NS	NS	0.35 U	0.36 U	0.38 U
Naphthalene	12	100	0.35 UJ	0.36 U	0.38 UJ
Nitrobenzene	NS	NS	0.35 U	0.36 U	0.38 U
N-Nitrosodi-N-Propylamine	NS	NS	0.35 U	0.36 U	0.38 U
N-Nitrosodiphenylamine	NS	NS	0.35 U	0.36 U	0.38 U
Pentachlorophenol	0.8	6.7	0.35 U	0.36 UJ	0.38 UJ
Phenanthrene	100	100	0.69	1.2	0.25 J
Phenol	0.33	100	0.0999 J	0.1 J	0.0901 J
Pyrene	100	100	0.62	1.7	0.44

Table 2
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Remedial Investigation Soil Analytical Results
Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-7(0-2)-20171127 11/27/2017 5 mg/kg	SB-7(4-6)-20171127 11/27/2017 2 mg/kg	SB-8(0-2)-20171127 11/27/2017 10 mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	1.7 U	0.68 U	3.7 U
2,3,4,6-Tetrachlorophenol	NS	NS	1.7 U	0.68 U	3.7 U
2,4,5-Trichlorophenol	NS	NS	1.7 U	0.68 U	3.7 U
2,4,6-Trichlorophenol	NS	NS	1.7 U	0.68 U	3.7 U
2,4-Dichlorophenol	NS	NS	1.7 U	0.68 U	3.7 U
2,4-Dimethylphenol	NS	NS	1.7 U	0.68 U	3.7 U
2,4-Dinitrophenol	NS	NS	1.7 U	0.68 U	3.7 UJ
2,4-Dinitrotoluene	NS	NS	1.7 U	0.68 U	3.7 UJ
2,6-Dinitrotoluene	NS	NS	1.7 U	0.68 U	3.7 U
2-Chloronaphthalene	NS	NS	1.7 U	0.68 U	3.7 U
2-Chlorophenol	NS	NS	1.7 U	0.68 U	3.7 U
2-Methylnaphthalene	NS	NS	1.7 U	1.5	3.7 U
2-Methylphenol (O-Cresol)	0.33	100	1.7 U	0.68 U	3.7 U
2-Nitroaniline	NS	NS	1.7 U	0.68 U	3.7 U
2-Nitrophenol	NS	NS	1.7 U	0.68 U	3.7 UJ
3,3'-Dichlorobenzidine	NS	NS	1.7 U	0.68 U	3.7 U
3-Methylphenol/4-Methylphenol	NS	NS	1.7 U	0.68 U	3.7 U
3-Nitroaniline	NS	NS	1.7 U	0.68 U	3.7 U
4,6-Dinitro-2-Methylphenol	NS	NS	1.7 U	0.68 U	3.7 UJ
4-Bromophenyl Phenyl Ether	NS	NS	1.7 U	0.68 U	3.7 U
4-Chloro-3-Methylphenol	NS	NS	1.7 U	0.68 U	3.7 U
4-Chloroaniline	NS	NS	1.7 U	0.68 U	3.7 U
4-Chlorophenyl Phenyl Ether	NS	NS	1.7 U	0.68 U	3.7 U
4-Nitroaniline	NS	NS	1.7 U	0.68 U	3.7 U
4-Nitrophenol	NS	NS	1.7 U	0.68 U	3.7 U
Acenaphthene	20	100	1.7 U	2.1	0.83 J
Acenaphthylene	100	100	1.7 U	0.21 J	3.7 U
Acetophenone	NS	NS	1.7 U	0.68 U	3.7 U
Anthracene	100	100	0.45 J	2.7	1.9 J
Atrazine	NS	NS	1.7 U	0.68 U	3.7 U
Benzaldehyde	NS	NS	1.7 U	0.68 U	3.7 U
Benzo(a)Anthracene	1	1	**1.2 J**	**6.4 D**	**4.5**
Benzo(a)Pyrene	1	1	**1.1 J**	**5**	**4.2**
Benzo(b)Fluoranthene	1	1	**1.2 J**	**8.2 D**	**5.6**
Benzo(g,h,i)Perylene	100	100	0.72 J	2.9	2.6 J
Benzo(k)Fluoranthene	0.8	3.9	0.53 J	**2**	**2.1 J**
Benzyl Butyl Phthalate	NS	NS	1.7 U	0.68 U	3.7 U
Biphenyl (Diphenyl)	NS	NS	1.7 U	0.33 J	3.7 U
Bis(2-Chloroethoxy) Methane	NS	NS	1.7 U	0.68 U	3.7 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	1.7 U	0.68 U	3.7 U
Bis(2-Chloroisopropyl) Ether	NS	NS	1.7 U	0.68 U	3.7 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	1.7 U	0.68 U	3.7 U
Caprolactam	NS	NS	1.7 U	0.68 U	3.7 U
Carbazole	NS	NS	1.7 U	1.5	0.95 J
Chrysene	1	3.9	**1.2 J**	**6.4 D**	**4.1**
Dibenz(a,h)Anthracene	0.33	0.33	1.7 U	**0.81**	3.7 U
Dibenzofuran	7	59	1.7 U	1.5	3.7 U
Diethyl Phthalate	NS	NS	1.7 U	0.68 U	3.7 U
Dimethyl Phthalate	NS	NS	1.7 U	0.15 J	3.7 U
Di-N-Butyl Phthalate	NS	NS	1.7 U	0.68 U	3.7 U
Di-N-Octylphthalate	NS	NS	1.7 U	0.68 U	3.7 U
Fluoranthene	100	100	2.1	16.3 D	11.1
Fluorene	30	100	1.7 U	2.2	1.1 J
Hexachlorobenzene	0.33	1.2	1.7 U	0.68 U	3.7 U
Hexachlorobutadiene	NS	NS	1.7 U	0.68 U	3.7 U
Hexachlorocyclopentadiene	NS	NS	1.7 U	0.68 U	3.7 U
Hexachloroethane	NS	NS	1.7 U	0.68 U	3.7 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**0.76 J**	**3.7**	**2.1 J**
Isophorone	NS	NS	1.7 U	0.68 U	3.7 U
Naphthalene	12	100	1.7 U	3.9	0.87 J
Nitrobenzene	NS	NS	1.7 U	0.68 U	3.7 U
N-Nitrosodi-N-Propylamine	NS	NS	1.7 U	0.68 U	3.7 U
N-Nitrosodiphenylamine	NS	NS	1.7 U	0.68 U	3.7 U
Pentachlorophenol	0.8	6.7	1.7 U	0.68 U	3.7 U
Phenanthrene	100	100	2.2	17.3 D	8.3
Phenol	0.33	100	1.7 U	0.19 J	3.7 U
Pyrene	100	100	2	11.8 D	7.1

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Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-8(10-12)-20171127 11/27/2017 1 mg/kg	SB-9(0-2)-20171127 11/27/2017 2 mg/kg	SB-9(8-10)-20171127 11/27/2017 1 mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.34 U	0.74 U	0.41 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.34 U	0.74 U	0.41 U
2,4,5-Trichlorophenol	NS	NS	0.34 U	0.74 U	0.41 U
2,4,6-Trichlorophenol	NS	NS	0.34 U	0.74 U	0.41 U
2,4-Dichlorophenol	NS	NS	0.34 U	0.74 U	0.41 U
2,4-Dimethylphenol	NS	NS	0.34 U	0.74 U	0.41 U
2,4-Dinitrophenol	NS	NS	0.34 UJ	0.74 U	0.41 UJ
2,4-Dinitrotoluene	NS	NS	0.34 U	0.74 U	0.41 UJ
2,6-Dinitrotoluene	NS	NS	0.34 U	0.74 U	0.41 U
2-Chloronaphthalene	NS	NS	0.34 U	0.74 U	0.41 U
2-Chlorophenol	NS	NS	0.34 U	0.74 U	0.41 U
2-Methylnaphthalene	NS	NS	0.34 U	0.23 J	0.41 U
2-Methylphenol (O-Cresol)	0.33	100	0.34 U	0.74 U	0.41 U
2-Nitroaniline	NS	NS	0.34 U	0.74 U	0.41 U
2-Nitrophenol	NS	NS	0.34 U	0.74 U	0.41 UJ
3,3'-Dichlorobenzidine	NS	NS	0.34 U	0.74 U	0.41 U
3-Methylphenol/4-Methylphenol	NS	NS	0.34 U	0.74 U	0.41 U
3-Nitroaniline	NS	NS	0.34 U	0.74 U	0.41 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.34 U	0.74 U	0.41 UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.34 U	0.74 U	0.41 U
4-Chloro-3-Methylphenol	NS	NS	0.34 U	0.74 U	0.41 U
4-Chloroaniline	NS	NS	0.34 U	0.74 U	0.41 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.34 U	0.74 U	0.41 U
4-Nitroaniline	NS	NS	0.34 U	0.74 U	0.41 U
4-Nitrophenol	NS	NS	0.34 U	0.74 U	0.41 U
Acenaphthene	20	100	0.34 U	0.8	0.41 U
Acenaphthylene	100	100	0.34 U	0.42 J	0.41 U
Acetophenone	NS	NS	0.34 U	0.74 U	0.41 U
Anthracene	100	100	0.34 U	2.1	0.41 U
Atrazine	NS	NS	0.34 U	0.74 U	0.41 U
Benzaldehyde	NS	NS	0.34 U	0.74 U	0.41 U
Benzo(a)Anthracene	1	1	0.34 U	**6.9 D**	0.41 U
Benzo(a)Pyrene	1	1	0.34 U	**5.7**	0.41 U
Benzo(b)Fluoranthene	1	1	0.34 U	**8.4 D**	0.41 U
Benzo(g,h,i)Perylene	100	100	0.34 U	3.1	0.41 U
Benzo(k)Fluoranthene	0.8	3.9	0.34 U	**2.5**	0.41 U
Benzyl Butyl Phthalate	NS	NS	0.34 U	15.3 D	0.41 U
Biphenyl (Diphenyl)	NS	NS	0.34 U	0.74 U	0.41 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.34 U	0.74 U	0.41 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.34 U	0.74 U	0.41 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.34 U	0.74 U	0.41 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.34 U	2.5	0.41 U
Caprolactam	NS	NS	0.34 U	0.74 U	0.41 U
Carbazole	NS	NS	0.34 U	0.9	0.41 U
Chrysene	1	3.9	0.34 U	**6.6 D**	0.41 U
Dibenz(a,h)Anthracene	0.33	0.33	0.34 U	**0.89**	0.41 U
Dibenzofuran	7	59	0.34 U	0.43 J	0.41 U
Diethyl Phthalate	NS	NS	0.34 U	0.74 U	0.41 U
Dimethyl Phthalate	NS	NS	0.16 J	0.18 J	0.27 J
Di-N-Butyl Phthalate	NS	NS	0.34 U	0.74 U	0.41 U
Di-N-Octylphthalate	NS	NS	0.34 U	0.74 U	0.41 U
Fluoranthene	100	100	0.34 U	14.4 D	0.41 U
Fluorene	30	100	0.34 U	0.8	0.41 U
Hexachlorobenzene	0.33	1.2	0.34 U	0.74 U	0.41 U
Hexachlorobutadiene	NS	NS	0.34 U	0.74 U	0.41 U
Hexachlorocyclopentadiene	NS	NS	0.34 UJ	0.74 U	0.41 U
Hexachloroethane	NS	NS	0.34 U	0.74 U	0.41 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.34 U	**3.6**	0.41 U
Isophorone	NS	NS	0.34 U	0.74 U	0.41 U
Naphthalene	12	100	0.34 U	0.45 J	0.41 U
Nitrobenzene	NS	NS	0.34 U	0.74 U	0.41 U
N-Nitrosodi-N-Propylamine	NS	NS	0.34 U	0.74 U	0.41 U
N-Nitrosodiphenylamine	NS	NS	0.34 U	0.74 U	0.41 U
Pentachlorophenol	0.8	6.7	0.34 U	0.74 U	0.41 U
Phenanthrene	100	100	0.34 U	9.6 D	0.41 U
Phenol	0.33	100	0.11 J	0.74 U	0.12 J
Pyrene	100	100	0.34 U	11.3 D	0.41 U

Table 2
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Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-10(0-2)-20171127 11/27/2017 1 mg/kg	SB-X(0-2)-20171127 11/27/2017 1 mg/kg	SB-10(8-10)-20171127 11/27/2017 2 mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.38 U	0.77 U	0.36 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.38 U	0.77 U	0.36 U
2,4,5-Trichlorophenol	NS	NS	0.38 U	0.77 U	0.36 U
2,4,6-Trichlorophenol	NS	NS	0.38 U	0.77 U	0.36 U
2,4-Dichlorophenol	NS	NS	0.38 U	0.77 U	0.36 U
2,4-Dimethylphenol	NS	NS	0.38 U	0.77 U	0.36 U
2,4-Dinitrophenol	NS	NS	0.38 U	0.77 U	0.36 UJ
2,4-Dinitrotoluene	NS	NS	0.38 U	0.77 U	0.36 U
2,6-Dinitrotoluene	NS	NS	0.38 U	0.77 U	0.36 U
2-Chloronaphthalene	NS	NS	0.38 U	0.77 U	0.36 U
2-Chlorophenol	NS	NS	0.38 U	0.77 U	0.36 U
2-Methylnaphthalene	NS	NS	0.38 U	0.77 U	0.27 J
2-Methylphenol (O-Cresol)	0.33	100	0.38 U	0.77 U	0.36 U
2-Nitroaniline	NS	NS	0.38 U	0.77 U	0.36 U
2-Nitrophenol	NS	NS	0.38 U	0.77 U	0.36 UJ
3,3'-Dichlorobenzidine	NS	NS	0.38 U	0.77 U	0.36 U
3-Methylphenol/4-Methylphenol	NS	NS	0.38 U	0.77 U	0.36 U
3-Nitroaniline	NS	NS	0.38 U	0.77 U	0.36 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.38 U	0.77 U	0.36 UJ
4-Bromophenyl Phenyl Ether	NS	NS	0.38 U	0.77 U	0.36 U
4-Chloro-3-Methylphenol	NS	NS	0.38 U	0.77 U	0.36 U
4-Chloroaniline	NS	NS	0.38 U	0.77 U	0.36 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.38 U	0.77 U	0.36 U
4-Nitroaniline	NS	NS	0.38 U	0.77 U	0.36 U
4-Nitrophenol	NS	NS	0.38 U	0.77 U	0.36 U
Acenaphthene	20	100	0.18 J	0.16 J	0.44
Acenaphthylene	100	100	0.11 J	0.77 U	0.15 J
Acetophenone	NS	NS	0.38 U	0.77 U	0.36 U
Anthracene	100	100	0.49	0.49 J	0.96
Atrazine	NS	NS	0.38 U	0.77 U	0.36 U
Benzaldehyde	NS	NS	0.38 U	0.77 U	0.36 U
Benzo(a)Anthracene	1	1	**1.4**	**1.6**	**1.9**
Benzo(a)Pyrene	1	1	**1.3**	**1.5**	**1.6**
Benzo(b)Fluoranthene	1	1	**1.6**	**2**	**2.1**
Benzo(g,h,i)Perylene	100	100	0.77	0.74 J	1.1
Benzo(k)Fluoranthene	0.8	3.9	0.55	0.65 J	0.77
Benzyl Butyl Phthalate	NS	NS	0.18 J	0.77 U	0.0925 J
Biphenyl (Diphenyl)	NS	NS	0.38 U	0.77 U	0.36 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.38 U	0.77 U	0.36 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.38 U	0.77 U	0.36 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.38 U	0.77 U	0.36 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	1.2 J	3 J	0.27 J
Caprolactam	NS	NS	0.38 U	0.77 U	0.36 U
Carbazole	NS	NS	0.18 J	0.16 J	0.27 J
Chrysene	1	3.9	**1.5**	**1.6**	**1.6**
Dibenz(a,h)Anthracene	0.33	0.33	0.22 J	0.19 J	0.31 J
Dibenzofuran	7	59	0.1 J	0.77 U	0.28 J
Diethyl Phthalate	NS	NS	0.38 U	0.77 U	0.36 U
Dimethyl Phthalate	NS	NS	0.18 J	0.26 J	0.19 J
Di-N-Butyl Phthalate	NS	NS	0.38 U	0.77 U	0.36 U
Di-N-Octylphthalate	NS	NS	0.38 U	0.77 U	0.36 U
Fluoranthene	100	100	2.3	2.9	3.4 D
Fluorene	30	100	0.21 J	0.16 J	0.58
Hexachlorobenzene	0.33	1.2	0.38 U	0.77 U	0.36 U
Hexachlorobutadiene	NS	NS	0.38 U	0.77 U	0.36 U
Hexachlorocyclopentadiene	NS	NS	0.38 U	0.77 U	0.36 U
Hexachloroethane	NS	NS	0.38 U	0.77 U	0.36 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**0.81**	**0.62 J**	**0.81**
Isophorone	NS	NS	0.38 U	0.77 U	0.36 U
Naphthalene	12	100	0.0905 J	0.77 U	0.27 J
Nitrobenzene	NS	NS	0.38 U	0.77 U	0.36 U
N-Nitrosodi-N-Propylamine	NS	NS	0.38 U	0.77 U	0.36 U
N-Nitrosodiphenylamine	NS	NS	0.38 U	0.77 U	0.36 U
Pentachlorophenol	0.8	6.7	0.38 U	0.77 U	0.36 U
Phenanthrene	100	100	1.9	2	3.1 D
Phenol	0.33	100	0.13 J	0.77 U	0.11 J
Pyrene	100	100	2.7	2.4	2.9 D

Table 2
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-11(0-2)-20171129 11/29/2017 2 mg/kg	SB-11(6-8)-20171129 11/29/2017 2 mg/kg	SB-12(0-2)-20171127 11/27/2017 2 mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.71 U	0.74 U	0.74 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.71 U	0.74 U	0.74 U
2,4,5-Trichlorophenol	NS	NS	0.71 U	0.74 U	0.74 U
2,4,6-Trichlorophenol	NS	NS	0.71 U	0.74 U	0.74 U
2,4-Dichlorophenol	NS	NS	0.71 U	0.74 U	0.74 U
2,4-Dimethylphenol	NS	NS	0.71 U	0.74 U	0.74 U
2,4-Dinitrophenol	NS	NS	0.71 U	0.74 U	0.74 U
2,4-Dinitrotoluene	NS	NS	0.71 U	0.74 U	0.74 U
2,6-Dinitrotoluene	NS	NS	0.71 U	0.74 U	0.74 U
2-Chloronaphthalene	NS	NS	0.71 U	0.74 U	0.74 U
2-Chlorophenol	NS	NS	0.71 U	0.74 U	0.74 U
2-Methylnaphthalene	NS	NS	0.71 U	0.74 U	0.74 U
2-Methylphenol (O-Cresol)	0.33	100	0.71 U	0.74 U	0.74 U
2-Nitroaniline	NS	NS	0.71 U	0.74 U	0.74 U
2-Nitrophenol	NS	NS	0.71 U	0.74 U	0.74 U
3,3'-Dichlorobenzidine	NS	NS	0.71 U	0.74 U	0.74 U
3-Methylphenol/4-Methylphenol	NS	NS	0.71 U	0.74 U	0.74 U
3-Nitroaniline	NS	NS	0.71 U	0.74 U	0.74 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.71 UJ	0.74 UJ	0.74 U
4-Bromophenyl Phenyl Ether	NS	NS	0.71 U	0.74 U	0.74 U
4-Chloro-3-Methylphenol	NS	NS	0.71 U	0.74 U	0.74 U
4-Chloroaniline	NS	NS	0.71 U	0.74 U	0.74 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.71 U	0.74 U	0.74 U
4-Nitroaniline	NS	NS	0.71 UJ	0.74 UJ	0.74 U
4-Nitrophenol	NS	NS	0.71 U	0.74 U	0.74 U
Acenaphthene	20	100	0.71 U	0.37 J	0.21 J
Acenaphthylene	100	100	0.71 U	0.25 J	0.74 U
Acetophenone	NS	NS	0.71 U	0.74 U	0.74 U
Anthracene	100	100	0.21 J	1	0.61 J
Atrazine	NS	NS	0.71 U	0.74 U	0.74 U
Benzaldehyde	NS	NS	0.71 U	0.74 U	0.74 U
Benzo(a)Anthracene	1	1	0.86	**3.4**	**2**
Benzo(a)Pyrene	1	1	0.8	**2.9**	**1.8**
Benzo(b)Fluoranthene	1	1	**1.1**	**3.9**	**2.4**
Benzo(g,h,i)Perylene	100	100	0.51 J	1.6	1
Benzo(k)Fluoranthene	0.8	3.9	0.33 J	**1.1**	0.77
Benzyl Butyl Phthalate	NS	NS	0.71 U	0.74 U	0.74 U
Biphenyl (Diphenyl)	NS	NS	0.71 UJ	0.74 UJ	0.74 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.71 U	0.74 U	0.74 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.71 U	0.74 U	0.74 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.71 U	0.74 U	0.74 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.71 UJ	0.77 JL	0.74 U
Caprolactam	NS	NS	0.71 UJ	0.74 UJ	0.74 U
Carbazole	NS	NS	0.71 UJ	0.29 JL	0.26 J
Chrysene	1	3.9	0.82	**3.2**	**2.1**
Dibenz(a,h)Anthracene	0.33	0.33	0.71 U	**0.45 J**	0.3 J
Dibenzofuran	7	59	0.71 U	0.74 U	0.74 U
Diethyl Phthalate	NS	NS	0.71 U	0.74 U	0.74 U
Dimethyl Phthalate	NS	NS	0.71 UJ	0.74 UJ	0.18 J
Di-N-Butyl Phthalate	NS	NS	0.71 UJ	0.74 UJ	0.74 U
Di-N-Octylphthalate	NS	NS	0.71 UJ	0.74 UJ	0.74 U
Fluoranthene	100	100	1.5	5.9	3.5
Fluorene	30	100	0.71 U	0.38 J	0.21 J
Hexachlorobenzene	0.33	1.2	0.71 U	0.74 U	0.74 U
Hexachlorobutadiene	NS	NS	0.71 U	0.74 U	0.74 U
Hexachlorocyclopentadiene	NS	NS	0.71 UJ	0.74 UJ	0.74 U
Hexachloroethane	NS	NS	0.71 U	0.74 U	0.74 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.42 J	**1.3**	**0.99**
Isophorone	NS	NS	0.71 U	0.74 U	0.74 U
Naphthalene	12	100	0.71 U	0.74 U	0.74 U
Nitrobenzene	NS	NS	0.71 U	0.74 U	0.74 U
N-Nitrosodi-N-Propylamine	NS	NS	0.71 U	0.74 U	0.74 U
N-Nitrosodiphenylamine	NS	NS	0.71 U	0.74 U	0.74 U
Pentachlorophenol	0.8	6.7	0.71 U	0.74 U	0.74 U
Phenanthrene	100	100	1	4.1	2.8
Phenol	0.33	100	0.71 U	0.74 U	0.74 U
Pyrene	100	100	1.4	5.4	3.5

Table 2
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-12(10-12)-20171127 11/27/2017 5 mg/kg	FB-1-20171128 11/28/2017 1 ug/l
1,2,4,5-Tetrachlorobenzene	NS	NS	0.38 U	10 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.38 U	10 U
2,4,5-Trichlorophenol	NS	NS	0.38 U	10 U
2,4,6-Trichlorophenol	NS	NS	0.38 U	10 U
2,4-Dichlorophenol	NS	NS	0.38 U	10 U
2,4-Dimethylphenol	NS	NS	0.38 U	10 U
2,4-Dinitrophenol	NS	NS	0.38 UJ	10 UJ
2,4-Dinitrotoluene	NS	NS	0.38 UJ	10 U
2,6-Dinitrotoluene	NS	NS	0.38 U	10 U
2-Chloronaphthalene	NS	NS	0.38 U	10 U
2-Chlorophenol	NS	NS	0.38 U	10 U
2-Methylnaphthalene	NS	NS	0.28 J	10 U
2-Methylphenol (O-Cresol)	0.33	100	0.38 U	10 U
2-Nitroaniline	NS	NS	0.38 U	10 U
2-Nitrophenol	NS	NS	0.38 UJ	10 U
3,3'-Dichlorobenzidine	NS	NS	0.38 U	10 U
3-Methylphenol/4-Methylphenol	NS	NS	0.38 U	10 U
3-Nitroaniline	NS	NS	0.38 U	10 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.38 UJ	10 U
4-Bromophenyl Phenyl Ether	NS	NS	0.38 U	10 U
4-Chloro-3-Methylphenol	NS	NS	0.38 U	10 U
4-Chloroaniline	NS	NS	0.38 U	10 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.38 U	10 U
4-Nitroaniline	NS	NS	0.38 U	10 U
4-Nitrophenol	NS	NS	0.38 U	10 U
Acenaphthene	20	100	0.63	10 U
Acenaphthylene	100	100	0.41	10 U
Acetophenone	NS	NS	0.38 U	10 U
Anthracene	100	100	1.7	10 U
Atrazine	NS	NS	0.38 U	10 U
Benzaldehyde	NS	NS	0.38 U	10 U
Benzo(a)Anthracene	1	1	**4.9 D**	10 U
Benzo(a)Pyrene	1	1	**4.1 D**	10 U
Benzo(b)Fluoranthene	1	1	**5.7 D**	10 U
Benzo(g,h,i)Perylene	100	100	2.1	10 U
Benzo(k)Fluoranthene	0.8	3.9	**1.8**	10 U
Benzyl Butyl Phthalate	NS	NS	0.38 U	10 U
Biphenyl (Diphenyl)	NS	NS	0.079 J	10 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.38 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.38 U	10 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.38 U	10 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.38 U	10 U
Caprolactam	NS	NS	0.38 U	10 U
Carbazole	NS	NS	0.63	10 U
Chrysene	1	3.9	**4.6 D**	10 U
Dibenz(a,h)Anthracene	0.33	0.33	**0.59**	10 U
Dibenzofuran	7	59	0.45	10 U
Diethyl Phthalate	NS	NS	0.38 U	10 U
Dimethyl Phthalate	NS	NS	0.23 J	10 U
Di-N-Butyl Phthalate	NS	NS	0.38 U	10 U
Di-N-Octylphthalate	NS	NS	0.38 U	10 U
Fluoranthene	100	100	11.1 D	10 U
Fluorene	30	100	0.8	10 U
Hexachlorobenzene	0.33	1.2	0.38 U	10 U
Hexachlorobutadiene	NS	NS	0.38 U	10 U
Hexachlorocyclopentadiene	NS	NS	0.38 U	10 UJ
Hexachloroethane	NS	NS	0.38 U	10 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**2.1**	10 U
Isophorone	NS	NS	0.38 U	10 U
Naphthalene	12	100	0.43	10 U
Nitrobenzene	NS	NS	0.38 U	10 U
N-Nitrosodi-N-Propylamine	NS	NS	0.38 U	10 U
N-Nitrosodiphenylamine	NS	NS	0.38 U	10 U
Pentachlorophenol	0.8	6.7	0.38 U	10 U
Phenanthrene	100	100	8 D	10 U
Phenol	0.33	100	0.14 J	10 U
Pyrene	100	100	8.7 D	10 U

Table 3
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-1(0-2)-20171128 11/28/2017 1 mg/kg	SB-1(6-8)-20171128 11/28/2017 1 mg/kg	SB-2(0-2)-20171127 11/27/2017 1 mg/kg
Aluminum	**NS**	**NS**	9,390	5,910	6,250
Antimony	**NS**	**NS**	2.41 U	2.37 U	2.3 R
Arsenic	**13**	**16**	3.83	3.71	2.27
Barium	**350**	**400**	147	133	25.4
Beryllium	**7.2**	**72**	0.276 J	0.216 J	0.207 J
Cadmium	**2.5**	**4.3**	0.426	0.486	0.276 U
Calcium	**NS**	**NS**	5,790	19,200	1,600
Chromium, Total	**30**	**180**	15.1	9.43	13
Cobalt	**NS**	**NS**	7.34	5.04	5.82
Copper	**50**	**270**	22.1	26.2	10.01 JH
Iron	**NS**	**NS**	17,700	18,400	17,900
Lead	**63**	**400**	**285**	**300**	7.87
Magnesium	**NS**	**NS**	2380	6390	1410
Manganese	**1,600**	**2,000**	282	455	323
Mercury	**0.18**	**0.81**	0.124	**0.364**	0.014 U
Nickel	**30**	**310**	18	11.8	10.91
Potassium	**NS**	**NS**	1250	651	436
Selenium	**3.9**	**180**	**5.82**	**4.55**	**5.88**
Silver	**2**	**180**	0.482 U	0.474 U	0.46 U
Sodium	**NS**	**NS**	84.2 J	104	31.6 JL
Thallium	**NS**	**NS**	0.95 J	0.971 J	0.986 J
Vanadium	**NS**	**NS**	24.3	16.2	18.6
Zinc	**109**	**10,000**	**197**	**184**	23.2

Table 3
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-2(10-12)-20171127 11/27/2017 1 mg/kg	SB-3(0-2)-20171127 11/27/2017 1 mg/kg	SB-3(10-12)-20171127 11/27/2017 1 mg/kg
Aluminum	**NS**	**NS**	5,160	6,330	5,840
Antimony	**NS**	**NS**	2.29 R	2.31 R	2.37 R
Arsenic	**13**	**16**	2.65	3.39	2.88
Barium	**350**	**400**	28.5	102	94.1
Beryllium	**7.2**	**72**	0.191 J	0.226 J	0.211 J
Cadmium	**2.5**	**4.3**	0.135 J	0.498	0.338
Calcium	**NS**	**NS**	3,340	10,800	8,850
Chromium, Total	**30**	**180**	15.7	14.1	10.75
Cobalt	**NS**	**NS**	5.29	6.49	5.35
Copper	**50**	**270**	16.1 JH	16.8 JH	12.1 JH
Iron	**NS**	**NS**	18,700	18,300	17,400
Lead	**63**	**400**	10.68	**90.7**	**110**
Magnesium	**NS**	**NS**	1570	2930	3010
Manganese	**1,600**	**2,000**	291	304	284
Mercury	**0.18**	**0.81**	0.006 J	0.121	0.104
Nickel	**30**	**310**	12.5	13.8	12.1
Potassium	**NS**	**NS**	515	1280	709
Selenium	**3.9**	**180**	**6**	**4.96**	**4.92**
Silver	**2**	**180**	0.457 U	0.462 U	0.475 U
Sodium	**NS**	**NS**	54.8 JL	85.2 JL	56.7 JL
Thallium	**NS**	**NS**	0.935 J	1.12 J	0.851 J
Vanadium	**NS**	**NS**	18	22.3	20.6
Zinc	**109**	**10,000**	53	81.2	67.3

Table 3
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-4(0-2)-20171128 11/28/2017 1 mg/kg	SB-4(10-12)-20171128 11/28/2017 1 mg/kg	SB-5(0-2)-20171127 11/27/2017 1 mg/kg
Aluminum	**NS**	**NS**	6,100	2,910	9,100
Antimony	**NS**	**NS**	2.29 U	0.505 J	0.556 R
Arsenic	**13**	**16**	2.72	1.8	4.07
Barium	**350**	**400**	60.4	27.4	250
Beryllium	**7.2**	**72**	0.226 J	0.124 J	0.225 J
Cadmium	**2.5**	**4.3**	0.102 J	0.263 U	0.801
Calcium	**NS**	**NS**	7,850	894	11,000
Chromium, Total	**30**	**180**	13.6	8.21	20.9
Cobalt	**NS**	**NS**	7.19	6.12	10.29
Copper	**50**	**270**	17.6	9.59	26.7 JH
Iron	**NS**	**NS**	19,300	24,000	22,800
Lead	**63**	**400**	**69.9**	8.53	**104**
Magnesium	**NS**	**NS**	1790	1450	4460
Manganese	**1,600**	**2,000**	290	402	315
Mercury	**0.18**	**0.81**	0.16	0.013 U	0.14
Nickel	**30**	**310**	14.6	13.8	26
Potassium	**NS**	**NS**	988	635	3560
Selenium	**3.9**	**180**	**6.14**	**8.39**	**6.52**
Silver	**2**	**180**	0.458 U	0.439 U	0.474 U
Sodium	**NS**	**NS**	80.6 J	45.4 J	126 JL
Thallium	**NS**	**NS**	0.987 J	1.22 J	1.79 J
Vanadium	**NS**	**NS**	24.1	16.4	45.8
Zinc	**109**	**10,000**	79.2	26	**210**

Table 3
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-5(10-12)-20171127 11/27/2017 1 mg/kg	SB-6(0-2)-20171128 11/28/2017 1 mg/kg	SB-6(5-7)-20171128 11/28/2017 5 mg/kg
Aluminum	**NS**	**NS**	3,000	9,910	9,140
Antimony	**NS**	**NS**	2.19 R	0.577 J	0.671 J
Arsenic	**13**	**16**	1.59	4.16	5.28
Barium	**350**	**400**	26.4	195	**542**
Beryllium	**7.2**	**72**	0.133 J	0.378	0.317
Cadmium	**2.5**	**4.3**	0.263 U	0.485	0.651
Calcium	**NS**	**NS**	1,200	12,300	30,100
Chromium, Total	**30**	**180**	8.42	16.9	16.1
Cobalt	**NS**	**NS**	4.44	9.23	7.96
Copper	**50**	**270**	7.86 JH	25.7	20.7
Iron	**NS**	**NS**	15,500	20,600	21,500
Lead	**63**	**400**	9.4	**184**	**317**
Magnesium	**NS**	**NS**	1400	4430	3,300
Manganese	**1,600**	**2,000**	330	351	337
Mercury	**0.18**	**0.81**	0.012 U	0.132	**1.83 D**
Nickel	**30**	**310**	13.3	29.1	18.5
Potassium	**NS**	**NS**	494	2780	1080
Selenium	**3.9**	**180**	**5.2**	**5.99**	**4.2**
Silver	**2**	**180**	0.438 U	0.466 U	0.493 U
Sodium	**NS**	**NS**	22.3 JL	155	221
Thallium	**NS**	**NS**	0.842 J	1.37 J	1.12 J
Vanadium	**NS**	**NS**	12.8	30.3	24.1
Zinc	**109**	**10,000**	32.6	**192**	**342**

Table 3
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-7(0-2)-20171127 11/27/2017 1 mg/kg	SB-7(4-6)-20171127 11/27/2017 1 mg/kg	SB-8(0-2)-20171127 11/27/2017 1 mg/kg
Aluminum	**NS**	**NS**	6,870	6,150	7,450
Antimony	**NS**	**NS**	0.508 R	2.23 R	0.849 R
Arsenic	**13**	**16**	2.98	3.05	6.28
Barium	**350**	**400**	160	64.5	**1,790**
Beryllium	**7.2**	**72**	0.224 J	0.21 J	0.25 J
Cadmium	**2.5**	**4.3**	1.14	0.165 J	1.4
Calcium	**NS**	**NS**	4,380	1,070	25,400
Chromium, Total	**30**	**180**	13.5	18.2	16.6
Cobalt	**NS**	**NS**	6.45	6.6	6.67
Copper	**50**	**270**	15.3 JH	11.4 JH	22.4 JH
Iron	**NS**	**NS**	20,100	22,500	21,100
Lead	**63**	**400**	**221**	47.8	**1,500**
Magnesium	**NS**	**NS**	1,910	1,640	3,230
Manganese	**1,600**	**2,000**	326	371	273
Mercury	**0.18**	**0.81**	0.073	0.022	**0.195**
Nickel	**30**	**310**	14	13.3	15.4
Potassium	**NS**	**NS**	588	666	2050
Selenium	**3.9**	**180**	**6.43**	**7.75**	**4.34**
Silver	**2**	**180**	0.437 U	0.446 U	0.46 U
Sodium	**NS**	**NS**	103 JL	74.9 JL	342 JL
Thallium	**NS**	**NS**	1.08 J	1.21 J	1.32 J
Vanadium	**NS**	**NS**	21.8	20.5	28.1
Zinc	**109**	**10,000**	**124**	38.9	**787**

Table 3
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-8(10-12)-20171127 11/27/2017 1 mg/kg	SB-9(0-2)-20171127 11/27/2017 1 mg/kg	SB-9(8-10)-20171127 11/27/2017 1 mg/kg
Aluminum	**NS**	**NS**	2,830	6,780	8,780
Antimony	**NS**	**NS**	2.16 R	1.07 R	2.58 R
Arsenic	**13**	**16**	1.43	7.68	2.74
Barium	**350**	**400**	17.1	**373**	36.5
Beryllium	**7.2**	**72**	0.089 J	0.217 J	0.27 J
Cadmium	**2.5**	**4.3**	0.26 U	**8.38**	0.09 J
Calcium	**NS**	**NS**	610	16,500	1,080
Chromium, Total	**30**	**180**	7.03	16.1	20.6
Cobalt	**NS**	**NS**	2.94	6.63	9.33
Copper	**50**	**270**	5.74 JH	37.8 JH	14.5 JH
Iron	**NS**	**NS**	9,590	24,400	23,500
Lead	**63**	**400**	4.06	**909**	10.81
Magnesium	**NS**	**NS**	1,140	2,240	2,530
Manganese	**1,600**	**2,000**	234	304	368
Mercury	**0.18**	**0.81**	0.012 U	**0.513**	0.011 J
Nickel	**30**	**310**	6.56	16.9	14.4
Potassium	**NS**	**NS**	271	833	982
Selenium	**3.9**	**180**	2.97	**6.7**	**7.77**
Silver	**2**	**180**	0.433 U	0.471 U	0.516 U
Sodium	**NS**	**NS**	28.6 JL	207 JL	28.7 JL
Thallium	**NS**	**NS**	0.471 J	1.23 J	1.39 J
Vanadium	**NS**	**NS**	10.94	23.6	29.1
Zinc	**109**	**10,000**	12.3	**1,680**	39.4

Table 3
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-10(0-2)-20171127 11/27/2017 1 mg/kg	SB-X(0-2)-20171127 11/27/2017 1 mg/kg	SB-10(8-10)-20171127 11/27/2017 1 mg/kg
Aluminum	**NS**	**NS**	6,190	5,830	4,510
Antimony	**NS**	**NS**	2.08 R	0.758 R	2.26 R
Arsenic	**13**	**16**	4.03	3.75	2.9
Barium	**350**	**400**	137	106	52.4
Beryllium	**7.2**	**72**	0.233 J	0.246 J	0.183 J
Cadmium	**2.5**	**4.3**	0.85	0.567	0.25 J
Calcium	**NS**	**NS**	41,100	18,500	2,430
Chromium, Total	**30**	**180**	26.7	16	11.7
Cobalt	**NS**	**NS**	4.95	5.38	7.04
Copper	**50**	**270**	41.2 JH	25.5 JH	16 JH
Iron	**NS**	**NS**	13,100	15,300	25,600
Lead	**63**	**400**	**905**	**298**	37.5
Magnesium	**NS**	**NS**	3,910	2,640	1,470
Manganese	**1,600**	**2,000**	217	326	415
Mercury	**0.18**	**0.81**	**0.647**	**0.377**	0.016
Nickel	**30**	**310**	25.5	15.1	12.6
Potassium	**NS**	**NS**	641	626	751
Selenium	**3.9**	**180**	0.981 U	3.06	**8.39**
Silver	**2**	**180**	0.847	0.484 U	0.451 U
Sodium	**NS**	**NS**	120 JL	99.5 JL	111 JL
Thallium	**NS**	**NS**	0.767 J	0.787 J	1.37 J
Vanadium	**NS**	**NS**	19	18.9	18.7
Zinc	**109**	**10,000**	**203**	**147**	56.4

Table 3
7 Saratoga Avenue and 1510-1524 Broadway
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Remedial Investigation Soil Analytical Results
Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-11(0-2)-20171129 11/29/2017 1 mg/kg	SB-11(6-8)-20171129 11/29/2017 1 mg/kg	SB-12(0-2)-20171127 11/27/2017 1 mg/kg
Aluminum	**NS**	**NS**	5,910	5,730	7,210
Antimony	**NS**	**NS**	2.28 U	2.24 J	1.23 R
Arsenic	**13**	**16**	3.28	3.92	6.03
Barium	**350**	**400**	68.5	112	346
Beryllium	**7.2**	**72**	0.196 J	0.183 J	0.245 J
Cadmium	**2.5**	**4.3**	0.274 U	**2.8**	1.02
Calcium	**NS**	**NS**	14,100	12,000	11,000
Chromium, Total	**30**	**180**	11.4	14.5	16.9
Cobalt	**NS**	**NS**	4.91	5.66	7.12
Copper	**50**	**270**	17.4	25.2	43.2 JH
Iron	**NS**	**NS**	15,800	17,900	23,200
Lead	**63**	**400**	**78.8**	**277**	**595**
Magnesium	**NS**	**NS**	3,880	3,870	2,500
Manganese	**1,600**	**2,000**	248	237	324
Mercury	**0.18**	**0.81**	0.074	0.129	**0.404**
Nickel	**30**	**310**	12.7	13.8	16.7
Potassium	**NS**	**NS**	767	740	1200
Selenium	**3.9**	**180**	3.71	**4.58**	**6.89**
Silver	**2**	**180**	0.457 U	0.483 U	0.478 U
Sodium	**NS**	**NS**	125	165	219 JL
Thallium	**NS**	**NS**	0.77 J	0.921 J	1.36 J
Vanadium	**NS**	**NS**	20.5	25.8	25.3
Zinc	**109**	**10,000**	77.8	**897**	**363**

Table 3
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Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-12(10-12)-20171127 11/27/2017 1 mg/kg	FB-1-20171128 11/28/2017 1 ug/l
Aluminum	**NS**	**NS**	6,840	50 U
Antimony	**NS**	**NS**	0.803 R	25 U
Arsenic	**13**	**16**	7.82	10 U
Barium	**350**	**400**	**380**	50 U
Beryllium	**7.2**	**72**	0.24 J	3 U
Cadmium	**2.5**	**4.3**	0.905	3 U
Calcium	**NS**	**NS**	25,000	1,000 U
Chromium, Total	**30**	**180**	13.1	5 U
Cobalt	**NS**	**NS**	4.67	15 U
Copper	**50**	**270**	18.6 JH	10 U
Iron	**NS**	**NS**	18,600	50 U
Lead	**63**	**400**	**386**	6 U
Magnesium	**NS**	**NS**	2,380	1,000 U
Manganese	**1,600**	**2,000**	204	10 U
Mercury	**0.18**	**0.81**	0.17	0.2 U
Nickel	**30**	**310**	13.1	20 U
Potassium	**NS**	**NS**	648	1000 U
Selenium	**3.9**	**180**	3.56	10 U
Silver	**2**	**180**	0.477 U	5 U
Sodium	**NS**	**NS**	547 JL	1000 U
Thallium	**NS**	**NS**	1.01 J	20 U
Vanadium	**NS**	**NS**	33.9	20 U
Zinc	**109**	**10,000**	**525**	20 U

Table 4
7 Saratoga Avenue and 1510-1524 Broadway
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Remedial Investigation Soil Analytical Results
Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-1(0-2)-20171128 11/28/2017 1 mg/kg	SB-1(6-8)-20171128 11/28/2017 1 mg/kg
4,4'-DDD	**0.0033**	**13**	0.0026 J	0.0007439 J
4,4'-DDE	**0.0033**	**8.9**	0.002	0.0019 J
4,4'-DDT	**0.0033**	**7.9**	0.0031 J	0.0024
Aldrin	**0.005**	**0.097**	0.0019 U	0.0019 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.480**	0.0019 U	0.0019 U
Alpha Endosulfan	**NS**	**NS**	0.0019 U	0.0019 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.360**	0.0019 U	0.0019 U
Beta Endosulfan	**NS**	**NS**	0.0019 U	0.0019 U
cis-Chlordane	**0.094**	**4.2**	0.0028 J	0.0019 J
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0019 U	0.0019 U
Dieldrin	**0.005**	**0.2**	0.0019 U	0.0019 U
Endosulfan Sulfate	**NS**	**NS**	0.0019 U	0.0019 U
Endrin	**0.014**	**11**	0.0019 U	0.0019 U
Endrin Aldehyde	**NS**	**NS**	0.0019 U	0.0019 U
Endrin Ketone	**NS**	**NS**	0.0019 U	0.0019 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0019 U	0.0019 U
Heptachlor	**0.042**	**2.1**	0.0019 U	0.0019 U
Heptachlor Epoxide	**NS**	**NS**	0.0019 U	0.0019 U
Methoxychlor	**NS**	**NS**	0.0019 U	0.0019 U
Toxaphene	**NS**	**NS**	0.0194 U	0.0187 U
trans-Chlordane	**NS**	**NS**	0.001 J	0.0006083 J

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Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-2(0-2)-20171127 11/27/2017 1 mg/kg	SB-2(10-12)-20171127 11/27/2017 1 mg/kg
4,4'-DDD	0.0033	13	0.0018 U	0.0018 U
4,4'-DDE	0.0033	8.9	0.0018 U	0.0018 U
4,4'-DDT	0.0033	7.9	0.0018 U	0.0004416 J
Aldrin	0.005	0.097	0.0018 U	0.0018 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.480	0.0018 U	0.0018 U
Alpha Endosulfan	NS	NS	0.0018 U	0.0018 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.360	0.0018 U	0.0018 U
Beta Endosulfan	NS	NS	0.0018 U	0.0018 U
cis-Chlordane	0.094	4.2	0.0018 U	0.0018 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0018 U	0.0018 U
Dieldrin	0.005	0.2	0.0018 U	0.0018 U
Endosulfan Sulfate	NS	NS	0.0018 U	0.0018 U
Endrin	0.014	11	0.0018 U	0.0018 U
Endrin Aldehyde	NS	NS	0.0018 U	0.0018 U
Endrin Ketone	NS	NS	0.0018 U	0.0018 U
Gamma Bhc (Lindane)	0.1	1.3	0.0018 U	0.0018 U
Heptachlor	0.042	2.1	0.0018 U	0.0018 U
Heptachlor Epoxide	NS	NS	0.0018 U	0.0018 U
Methoxychlor	NS	NS	0.0018 U	0.0018 U
Toxaphene	NS	NS	0.0184 U	0.0182 U
trans-Chlordane	NS	NS	0.0018 U	0.0018 U

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Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-3(0-2)-20171127 11/27/2017 1 mg/kg	SB-3(10-12)-20171127 11/27/2017 1 mg/kg
4,4'-DDD	0.0033	13	0.0019 U	0.0015 J
4,4'-DDE	0.0033	8.9	0.0019 U	0.0023
4,4'-DDT	0.0033	7.9	0.0033 JH	**0.01 J**
Aldrin	0.005	0.097	0.0019 U	0.0019 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.480	0.0019 U	0.0019 U
Alpha Endosulfan	NS	NS	0.0019 U	0.0019 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.360	0.0019 U	0.0019 U
Beta Endosulfan	NS	NS	0.0019 U	0.0019 U
cis-Chlordane	0.094	4.2	0.0019 U	0.0019 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0019 U	0.0019 U
Dieldrin	0.005	0.2	0.0019 U	0.0019 U
Endosulfan Sulfate	NS	NS	0.0019 U	0.0019 U
Endrin	0.014	11	0.0019 U	0.0019 U
Endrin Aldehyde	NS	NS	0.0019 U	0.0019 U
Endrin Ketone	NS	NS	0.0019 U	0.0019 U
Gamma Bhc (Lindane)	0.1	1.3	0.0019 U	0.0019 U
Heptachlor	0.042	2.1	0.0019 U	0.0019 U
Heptachlor Epoxide	NS	NS	0.0019 U	0.0019 U
Methoxychlor	NS	NS	0.0019 U	0.0019 U
Toxaphene	NS	NS	0.0187 U	0.0186 U
trans-Chlordane	NS	NS	0.0019 U	0.0019 U

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Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-4(0-2)-20171128 11/28/2017 1 mg/kg	SB-4(10-12)-20171128 11/28/2017 1 mg/kg
4,4'-DDD	**0.0033**	**13**	0.0019 U	0.0018 U
4,4'-DDE	**0.0033**	**8.9**	0.0012 J	0.0018 U
4,4'-DDT	**0.0033**	**7.9**	0.0022	0.0018 U
Aldrin	**0.005**	**0.097**	0.0019 U	0.0018 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.480**	0.0019 U	0.0018 U
Alpha Endosulfan	**NS**	**NS**	0.0019 U	0.0018 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.360**	0.0019 U	0.0018 U
Beta Endosulfan	**NS**	**NS**	0.0019 U	0.0018 U
cis-Chlordane	**0.094**	**4.2**	0.0009677 JN	0.0018 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0019 U	0.0018 U
Dieldrin	**0.005**	**0.2**	0.0019 U	0.0018 U
Endosulfan Sulfate	**NS**	**NS**	0.0019 U	0.0018 U
Endrin	**0.014**	**11**	0.0019 U	0.0018 U
Endrin Aldehyde	**NS**	**NS**	0.0019 U	0.0018 U
Endrin Ketone	**NS**	**NS**	0.0019 U	0.0018 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0019 U	0.0018 U
Heptachlor	**0.042**	**2.1**	0.0019 U	0.0018 U
Heptachlor Epoxide	**NS**	**NS**	0.0019 U	0.0018 U
Methoxychlor	**NS**	**NS**	0.0019 U	0.0018 U
Toxaphene	**NS**	**NS**	0.0188 U	0.0176 U
trans-Chlordane	**NS**	**NS**	0.0019 U	0.0018 U

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Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-5(0-2)-20171127 11/27/2017 1 mg/kg	SB-5(10-12)-20171127 11/27/2017 1 mg/kg
4,4'-DDD	**0.0033**	**13**	0.0019 U	0.0018 U
4,4'-DDE	**0.0033**	**8.9**	**0.004 J**	0.0007575 J
4,4'-DDT	**0.0033**	**7.9**	**0.0074**	0.0026
Aldrin	**0.005**	**0.097**	0.0019 U	0.0018 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.480**	0.0019 U	0.0018 U
Alpha Endosulfan	**NS**	**NS**	0.0019 U	0.0018 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.360**	0.0019 U	0.0018 U
Beta Endosulfan	**NS**	**NS**	0.0019 U	0.0018 U
cis-Chlordane	**0.094**	**4.2**	0.0019 U	0.0018 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0019 U	0.0018 U
Dieldrin	**0.005**	**0.2**	0.0019 U	0.0018 U
Endosulfan Sulfate	**NS**	**NS**	0.0019 U	0.0018 U
Endrin	**0.014**	**11**	0.0019 U	0.0018 U
Endrin Aldehyde	**NS**	**NS**	0.0019 U	0.0018 U
Endrin Ketone	**NS**	**NS**	0.0019 U	0.0018 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0019 U	0.0018 U
Heptachlor	**0.042**	**2.1**	0.0019 U	0.0018 U
Heptachlor Epoxide	**NS**	**NS**	0.0019 U	0.0018 U
Methoxychlor	**NS**	**NS**	0.0019 U	0.0018 U
Toxaphene	**NS**	**NS**	0.019 U	0.0178 U
trans-Chlordane	**NS**	**NS**	0.0019 U	0.0018 U

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Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-6(0-2)-20171128 11/28/2017 1 mg/kg	SB-6(5-7)-20171128 11/28/2017 1 mg/kg
4,4'-DDD	0.0033	13	0.0018 JH	0.0031 J
4,4'-DDE	0.0033	8.9	**0.0055 JH**	**0.0203**
4,4'-DDT	0.0033	7.9	**0.0113 JH**	**0.0373**
Aldrin	0.005	0.097	0.0018 U	0.002 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.480	0.0018 U	0.002 U
Alpha Endosulfan	NS	NS	0.0018 U	0.002 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.360	0.0018 U	0.002 U
Beta Endosulfan	NS	NS	0.0018 U	0.002 U
cis-Chlordane	0.094	4.2	0.0033 J	0.004 J
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0018 U	0.002 U
Dieldrin	0.005	0.2	0.0018 U	0.002 U
Endosulfan Sulfate	NS	NS	0.0018 U	0.002 U
Endrin	0.014	11	0.0018 U	0.002 U
Endrin Aldehyde	NS	NS	0.0018 U	0.002 U
Endrin Ketone	NS	NS	0.0018 U	0.002 U
Gamma Bhc (Lindane)	0.1	1.3	0.0018 U	0.002 U
Heptachlor	0.042	2.1	0.0018 U	0.002 U
Heptachlor Epoxide	NS	NS	0.0018 U	0.002 U
Methoxychlor	NS	NS	0.0018 U	0.002 U
Toxaphene	NS	NS	0.0185 U	0.0196 U
trans-Chlordane	NS	NS	0.0018 U	0.002 U

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Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-7(0-2)-20171127 11/27/2017 2 mg/kg	SB-7(4-6)-20171127 11/27/2017 1 mg/kg
4,4'-DDD	**0.0033**	**13**	**0.0111**	0.0018 U
4,4'-DDE	**0.0033**	**8.9**	**0.0154 J**	0.0007291 J
4,4'-DDT	**0.0033**	**7.9**	**0.0608 D**	0.002
Aldrin	**0.005**	**0.097**	0.0018 U	0.0018 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.480**	0.0018 U	0.0018 U
Alpha Endosulfan	**NS**	**NS**	0.0018 U	0.0018 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.360**	0.0018 U	0.0018 U
Beta Endosulfan	**NS**	**NS**	0.0018 U	0.0018 U
cis-Chlordane	**0.094**	**4.2**	0.0036 J	0.0018 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0018 U	0.0018 U
Dieldrin	**0.005**	**0.2**	0.0018 U	0.0018 U
Endosulfan Sulfate	**NS**	**NS**	0.0018 U	0.0018 U
Endrin	**0.014**	**11**	0.0018 U	0.0018 U
Endrin Aldehyde	**NS**	**NS**	0.0018 U	0.0018 U
Endrin Ketone	**NS**	**NS**	0.0018 U	0.0018 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0018 U	0.0018 U
Heptachlor	**0.042**	**2.1**	0.0018 U	0.0018 U
Heptachlor Epoxide	**NS**	**NS**	0.0018 U	0.0018 U
Methoxychlor	**NS**	**NS**	0.0018 U	0.0018 U
Toxaphene	**NS**	**NS**	0.0179 U	0.0175 U
trans-Chlordane	**NS**	**NS**	0.0033 JN	0.0018 U

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Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-8(0-2)-20171127 11/27/2017 1 mg/kg	SB-8(10-12)-20171127 11/27/2017 1 mg/kg
4,4'-DDD	0.0033	13	0.0019 U	0.0017 U
4,4'-DDE	0.0033	8.9	**0.013 J**	0.0017 U
4,4'-DDT	0.0033	7.9	**0.0284**	0.0017 U
Aldrin	0.005	0.097	0.0019 U	0.0017 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.480	0.0019 U	0.0017 U
Alpha Endosulfan	NS	NS	0.0019 U	0.0017 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.360	0.0019 U	0.0017 U
Beta Endosulfan	NS	NS	0.0019 U	0.0017 U
cis-Chlordane	0.094	4.2	0.0019 U	0.0017 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0019 U	0.0017 U
Dieldrin	0.005	0.2	0.0019 U	0.0017 U
Endosulfan Sulfate	NS	NS	0.0019 U	0.0017 U
Endrin	0.014	11	0.0019 U	0.0017 U
Endrin Aldehyde	NS	NS	0.0019 U	0.0017 U
Endrin Ketone	NS	NS	0.0019 U	0.0017 U
Gamma Bhc (Lindane)	0.1	1.3	0.0019 U	0.0017 U
Heptachlor	0.042	2.1	0.0019 U	0.0017 U
Heptachlor Epoxide	NS	NS	0.0019 U	0.0017 U
Methoxychlor	NS	NS	0.0019 U	0.0017 U
Toxaphene	NS	NS	0.0191 U	0.0173 U
trans-Chlordane	NS	NS	0.0019 U	0.0017 U

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Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-9(0-2)-20171127 11/27/2017 1 mg/kg	SB-9(8-10)-20171127 11/27/2017 1 mg/kg
4,4'-DDD	0.0033	13	0.0019 U	0.0021 U
4,4'-DDE	0.0033	8.9	**0.0081 J**	0.0003986 J
4,4'-DDT	0.0033	7.9	**0.0238**	0.0014 J
Aldrin	0.005	0.097	0.0019 U	0.0021 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.480	0.0019 U	0.0021 U
Alpha Endosulfan	NS	NS	0.0019 U	0.0021 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.360	0.0019 U	0.0021 U
Beta Endosulfan	NS	NS	0.0019 U	0.0021 U
cis-Chlordane	0.094	4.2	0.0055 JN	0.0021 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0019 U	0.0021 U
Dieldrin	0.005	0.2	0.0019 U	0.0021 U
Endosulfan Sulfate	NS	NS	0.0019 U	0.0021 U
Endrin	0.014	11	0.0019 U	0.0021 U
Endrin Aldehyde	NS	NS	0.0019 U	0.0021 U
Endrin Ketone	NS	NS	0.0019 U	0.0021 U
Gamma Bhc (Lindane)	0.1	1.3	0.0019 U	0.0021 U
Heptachlor	0.042	2.1	0.0019 U	0.0021 U
Heptachlor Epoxide	NS	NS	0.0019 U	0.0021 U
Methoxychlor	NS	NS	0.0019 U	0.0021 U
Toxaphene	NS	NS	0.019 U	0.021 U
trans-Chlordane	NS	NS	0.002 J	0.0021 U

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Brooklyn, New York
Remedial Investigation Soil Analytical Results
Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-10(0-2)-20171127 11/27/2017 1 mg/kg	SB-X(0-2)-20171127 11/27/2017 1 mg/kg
4,4'-DDD	**0.0033**	**13**	0.0019 U	0.0031 U
4,4'-DDE	**0.0033**	**8.9**	0.0017 J	0.002 U
4,4'-DDT	**0.0033**	**7.9**	**0.0058 JL**	**0.0118 J**
Aldrin	**0.005**	**0.097**	0.0019 U	0.002 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.480**	0.0019 U	0.002 U
Alpha Endosulfan	**NS**	**NS**	0.0019 U	0.002 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.360**	0.0019 U	0.002 U
Beta Endosulfan	**NS**	**NS**	0.0019 U	0.002 U
cis-Chlordane	**0.094**	**4.2**	0.0019 U	0.002 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0019 U	0.002 U
Dieldrin	**0.005**	**0.2**	0.0019 U	0.002 U
Endosulfan Sulfate	**NS**	**NS**	0.0019 U	0.002 U
Endrin	**0.014**	**11**	0.0019 U	0.002 U
Endrin Aldehyde	**NS**	**NS**	0.0019 U	0.002 U
Endrin Ketone	**NS**	**NS**	0.0019 U	0.002 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0019 U	0.002 U
Heptachlor	**0.042**	**2.1**	0.0019 U	0.002 U
Heptachlor Epoxide	**NS**	**NS**	0.0019 U	0.002 U
Methoxychlor	**NS**	**NS**	0.0019 U	0.002 U
Toxaphene	**NS**	**NS**	0.0193 U	0.0198 U
trans-Chlordane	**NS**	**NS**	0.0019 U	0.002 U

Table 4
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-10(8-10)-20171127 11/27/2017 1 mg/kg	SB-11(0-2)-20171129 11/29/2017 1 mg/kg
4,4'-DDD	**0.0033**	**13**	0.0019 U	0.0018 U
4,4'-DDE	**0.0033**	**8.9**	0.0016 J	0.0011 J
4,4'-DDT	**0.0033**	**7.9**	0.0028	0.0024
Aldrin	**0.005**	**0.097**	0.0019 U	0.0018 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.480**	0.0019 U	0.0018 U
Alpha Endosulfan	**NS**	**NS**	0.0019 U	0.0018 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.360**	0.0019 U	0.0018 U
Beta Endosulfan	**NS**	**NS**	0.0019 U	0.0018 U
cis-Chlordane	**0.094**	**4.2**	0.0019 U	0.0018 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0019 U	0.0018 U
Dieldrin	**0.005**	**0.2**	0.0019 U	0.0018 U
Endosulfan Sulfate	**NS**	**NS**	0.0019 U	0.0018 U
Endrin	**0.014**	**11**	0.0019 U	0.0018 U
Endrin Aldehyde	**NS**	**NS**	0.0019 U	0.0018 U
Endrin Ketone	**NS**	**NS**	0.0019 U	0.0018 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0019 U	0.0018 U
Heptachlor	**0.042**	**2.1**	0.0019 U	0.0018 U
Heptachlor Epoxide	**NS**	**NS**	0.0019 U	0.0018 U
Methoxychlor	**NS**	**NS**	0.0019 U	0.0018 U
Toxaphene	**NS**	**NS**	0.0185 U	0.0184 U
trans-Chlordane	**NS**	**NS**	0.0019 U	0.0018 U

Table 4
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-11(6-8)-20171129 11/29/2017 1 mg/kg	SB-12(0-2)-20171127 11/27/2017 5 mg/kg And mg/kg
4,4'-DDD	0.0033	13	0.0012 J	0.0019 U
4,4'-DDE	0.0033	8.9	**0.0038**	**0.0318 JD**
4,4'-DDT	0.0033	7.9	**0.0108**	**0.0798 D**
Aldrin	0.005	0.097	0.0019 U	0.0019 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.480	0.0019 U	0.0019 U
Alpha Endosulfan	NS	NS	0.0019 U	0.0019 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.360	0.0019 U	0.0019 U
Beta Endosulfan	NS	NS	0.0019 U	0.0019 U
cis-Chlordane	0.094	4.2	0.0019 U	0.0019 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0019 U	0.0019 U
Dieldrin	0.005	0.2	0.0019 U	0.0019 U
Endosulfan Sulfate	NS	NS	0.0019 U	0.0019 U
Endrin	0.014	11	0.0019 U	0.0019 U
Endrin Aldehyde	NS	NS	0.0019 U	0.0019 U
Endrin Ketone	NS	NS	0.0019 U	0.0019 U
Gamma Bhc (Lindane)	0.1	1.3	0.0019 U	0.0019 U
Heptachlor	0.042	2.1	0.0019 U	0.0019 U
Heptachlor Epoxide	NS	NS	0.0019 U	0.0019 U
Methoxychlor	NS	NS	0.0019 U	0.0019 U
Toxaphene	NS	NS	0.019 U	0.0192 U
trans-Chlordane	NS	NS	0.0019 U	0.0019 U

Table 4
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-12(10-12)-20171127 11/27/2017 5 mg/kg	FB-1-20171128 11/28/2017 1 ug/l
4,4'-DDD	**0.0033**	**13**	**0.0065**	0.05 U
4,4'-DDE	**0.0033**	**8.9**	0.0007962 J	0.05 U
4,4'-DDT	**0.0033**	**7.9**	0.11 D	0.05 U
Aldrin	**0.005**	**0.097**	0.002 U	0.05 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.480**	0.002 U	0.05 U
Alpha Endosulfan	**NS**	**NS**	0.002 U	0.05 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.360**	0.002 U	0.05 U
Beta Endosulfan	**NS**	**NS**	0.002 U	0.05 U
cis-Chlordane	**0.094**	**4.2**	0.002 U	0.05 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.002 U	0.05 U
Dieldrin	**0.005**	**0.2**	0.002 U	0.05 U
Endosulfan Sulfate	**NS**	**NS**	0.002 U	0.05 U
Endrin	**0.014**	**11**	0.002 U	0.05 U
Endrin Aldehyde	**NS**	**NS**	0.002 U	0.05 U
Endrin Ketone	**NS**	**NS**	0.002 U	0.05 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.002 U	0.05 U
Heptachlor	**0.042**	**2.1**	0.002 U	0.05 U
Heptachlor Epoxide	**NS**	**NS**	0.002 U	0.05 U
Methoxychlor	**NS**	**NS**	0.002 U	0.05 U
Toxaphene	**NS**	**NS**	0.0196 U	0.5 U
trans-Chlordane	**NS**	**NS**	0.002 U	0.05 U

Table 5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-1(0-2)-20171128 11/28/2017 1 mg/kg	SB-1(6-8)-20171128 11/28/2017 1 mg/kg	SB-2(0-2)-20171127 11/27/2017 1 mg/kg
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.0194 U	0.0187 U	0.0184 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.0194 U	0.0187 U	0.0184 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.0194 U	0.0187 U	0.0184 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.0194 U	0.0187 U	0.0184 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.0194 U	0.0187 U	0.0184 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.0194 U	0.0187 U	0.0184 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.0194 U	0.0187 U	0.0184 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.0194 U	0.0187 U	0.0184 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.0194 U	0.0187 U	0.0184 U
Total PCBs	**0.1**	**1**	0.0194 U	0.0187 U	0.0184 U

Table 5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-2(10-12)-20171127 11/27/2017 1 mg/kg	SB-3(0-2)-20171127 11/27/2017 1 mg/kg	SB-3(10-12)-20171127 11/27/2017 1 mg/kg
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.0182 U	0.0187 U	0.0186 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.0182 U	0.0187 U	0.0186 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.0182 U	0.0187 U	0.0186 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.0182 U	0.0187 U	0.0186 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.0182 U	0.0187 U	0.0186 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.0182 U	0.0187 U	0.0186 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.0182 U	0.0187 U	0.0186 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.0182 U	0.0187 U	0.0186 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.0182 U	0.0187 U	0.0186 U
Total PCBs	**0.1**	**1**	0.0182 U	0.0187 U	0.0186 U

Table 5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-4(0-2)-20171128 11/28/2017 1 mg/kg	SB-4(10-12)-20171128 11/28/2017 1 mg/kg	SB-5(0-2)-20171127 11/27/2017 1 mg/kg
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.0187 U	0.0176 U	0.019 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.0187 U	0.0176 U	0.019 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.0187 U	0.0176 U	0.019 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.0187 U	0.0176 U	0.019 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.0187 U	0.0176 U	0.019 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.0187 U	0.0176 U	0.019 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.0187 U	0.0176 U	0.019 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.0187 U	0.0176 U	0.019 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.0187 U	0.0176 U	0.019 U
Total PCBs	**0.1**	**1**	0.0187 U	0.0176 U	0.019 U

Table 5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-5(10-12)-20171127 11/27/2017 1 mg/kg	SB-6(0-2)-20171128 11/28/2017 1 mg/kg	SB-6(5-7)-20171128 11/28/2017 1 mg/kg
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.0178 U	0.0185 U	0.0196 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.0178 U	0.0185 U	0.0196 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.0178 U	0.0185 U	0.0196 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.0178 U	0.0185 U	0.0196 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.0178 U	0.0185 U	0.0196 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.0178 U	0.0185 U	0.0196 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.0178 U	0.0185 U	0.0196 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.0178 U	0.0185 U	0.0196 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.0178 U	0.0185 U	0.0196 U
Total PCBs	**0.1**	**1**	0.0178 U	0.0185 U	0.0196 U

Table 5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-7(0-2)-20171127 11/27/2017 1 mg/kg	SB-7(4-6)-20171127 11/27/2017 1 mg/kg	SB-8(0-2)-20171127 11/27/2017 1 mg/kg
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.0179 U	0.0175 U	0.0191 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.0179 U	0.0175 U	0.0191 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.0179 U	0.0175 U	0.0191 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.0179 U	0.0175 U	0.0191 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.0179 U	0.0175 U	0.0191 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.0179 U	0.0175 U	0.0191 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.0179 U	0.0175 U	0.0191 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.0179 U	0.0175 U	0.0191 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.0179 U	0.0175 U	0.0191 U
Total PCBs	**0.1**	**1**	0.0179 U	0.0175 U	0.0191 U

Table 5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-8(10-12)-20171127 11/27/2017 1 mg/kg	SB-9(0-2)-20171127 11/27/2017 1 mg/kg	SB-9(8-10)-20171127 11/27/2017 1 mg/kg
PCB-1016 (Aroclor 1016)	NS	NS	0.0173 U	0.019 U	0.021 UJ
PCB-1221 (Aroclor 1221)	NS	NS	0.0173 U	0.019 U	0.021 UJ
PCB-1232 (Aroclor 1232)	NS	NS	0.0173 U	0.019 U	0.021 UJ
PCB-1242 (Aroclor 1242)	NS	NS	0.0173 U	0.019 U	0.021 UJ
PCB-1248 (Aroclor 1248)	NS	NS	0.0173 U	0.019 U	0.021 UJ
PCB-1254 (Aroclor 1254)	NS	NS	0.0173 U	0.019 U	0.021 UJ
PCB-1260 (Aroclor 1260)	NS	NS	0.0173 U	0.019 U	0.021 UJ
PCB-1262 (Aroclor 1262)	NS	NS	0.0173 U	0.019 U	0.021 UJ
PCB-1268 (Aroclor 1268)	NS	NS	0.0173 U	0.019 U	0.021 UJ
Total PCBs	0.1	1	0.0173 U	0.019 U	0.021 UJ

Table 5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-10(0-2)-20171127 11/27/2017 1 mg/kg	SB-X(0-2)-20171127 11/27/2017 1 mg/kg	SB-10(8-10)-20171127 11/27/2017 1 mg/kg
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.0193 U	0.0198 UJ	0.0185 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.0193 U	0.0198 UJ	0.0185 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.0193 U	0.0198 UJ	0.0185 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.0193 U	0.0198 UJ	0.0185 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.0193 U	0.0198 UJ	0.0185 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.0193 U	0.0198 UJ	0.0185 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.0193 U	0.0198 UJ	0.0185 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.0193 U	0.0198 UJ	0.0185 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.0193 U	0.0198 UJ	0.0185 U
Total PCBs	**0.1**	**1**	0.0193 U	0.0198 UJ	0.0185 U

Table 5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-11(0-2)-20171129 11/29/2017 1 mg/kg	SB-11(6-8)-20171129 11/29/2017 1 mg/kg	SB-12(0-2)-20171127 11/27/2017 4 mg/kg
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.0184 U	0.019 UJ	0.0192 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.0184 U	0.019 UJ	0.0192 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.0184 U	0.019 UJ	0.0192 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.0184 U	0.019 UJ	0.0192 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.0184 U	0.019 UJ	0.0192 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.0184 U	0.019 UJ	0.87 D
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.0184 U	0.019 UJ	0.0192 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.0184 U	0.019 UJ	0.0192 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.0184 U	0.019 UJ	0.0192 U
Total PCBs	**0.1**	**1**	0.0184 U	0.019 UJ	**0.87 D**

Table 5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC UUSCOs mg/kg	NYSDEC RRSCOs mg/kg	SB-12(10-12)-20171127 11/27/2017 1 mg/kg	FB-1-20171128 11/28/2017 1 ug/l
PCB-1016 (Aroclor 1016)	NS	NS	0.0196 U	0.5 U
PCB-1221 (Aroclor 1221)	NS	NS	0.0196 U	0.5 U
PCB-1232 (Aroclor 1232)	NS	NS	0.0196 U	0.5 U
PCB-1242 (Aroclor 1242)	NS	NS	0.0196 U	0.5 U
PCB-1248 (Aroclor 1248)	NS	NS	0.0196 U	0.5 U
PCB-1254 (Aroclor 1254)	NS	NS	0.0196 U	0.5 U
PCB-1260 (Aroclor 1260)	NS	NS	0.0196 U	0.5 U
PCB-1262 (Aroclor 1262)	NS	NS	0.0196 U	0.5 U
PCB-1268 (Aroclor 1268)	NS	NS	0.0196 U	0.5 U
Total PCBs	0.1	1	0.0196 U	0.5 U

Tables 1-5
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Analytical Results
Notes

GENERAL

NS : No standard.

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

JH : The concentration given is an estimated value biased high.

JL : The concentration given is an estimated value biased low.

N : Indicates the spiked sample recovery is not within control limits

D : Indicates the reported values is from a diluted analysis.

R : The data is unusable. The sample result is rejected due to deficiencies in meeting Quality Control criteria. The analyte may or may not be present in the sample.

SOIL

Part 375 Soil Cleanup Objectives : Soil Cleanup Objectives (SCOs) listed in NYSDEC (New York State Department of Environmental Conservation) "Part 375" Regulations (6 NYCRR Part 375).

mg/kg : milligrams per kilogram = parts per million (ppm)

Exceedences of Part 375 Unrestricted SCOs (UUSCOs) are highlighted in bold font.
Exceedences of Part 375 Restricted Residential SCOs (RRSCOs) are highlighted in gray.

Table 6
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Groundwater Analytical Results
Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC Class GA AWQS µg/L	MW-1-20171211 12/11/2017 1 µg/L	MW-4-20171211 12/11/2017 1 µg/L
1,1,1-Trichloroethane	5	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U
1,2,3-Trichlorobenzene	5	1 UJ	1 UJ
1,2,4-Trichlorobenzene	5	1 UJ	1 UJ
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U
1,4-Dioxane (P-Dioxane)	NS	100 U	100 U
2-Hexanone	50	5 U	5 U
Acetone	50	5 U	2.2 J
Benzene	1	1 U	1 U
Bromochloromethane	5	1 U	1 U
Bromodichloromethane	50	1 U	1 U
Bromoform	50	1 U	1 U
Bromomethane	5	1 UJ	1 UJ
Carbon Disulfide	60	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U
Chlorobenzene	5	1 U	1 U
Chloroethane	5	1 U	1 U
Chloroform	7	1.7	0.78 J
Chloromethane	5	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U
Cis-1,3-Dichloropropene	NS	1 U	1 U
Cyclohexane	NS	1 UJ	1 UJ
Dibromochloromethane	50	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U
Ethylbenzene	5	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U
M,P-Xylenes	5	2 U	2 U
Methyl Acetate	NS	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U
Methylcyclohexane	NS	1 U	1 U
Methylene Chloride	5	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	5	1 U	1 U
Styrene	5	1 U	1 U
Tert-Butyl Methyl Ether	10	1 U	1 U
Tetrachloroethylene (PCE)	5	**25.5**	**19.1**
Toluene	5	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U
Trans-1,3-Dichloropropene	NS	1 U	1 U
Trichloroethylene (TCE)	5	0.74 J	1 U
Trichlorofluoromethane	5	1 U	1 U
Vinyl Chloride	2	1 U	1 U
Xylenes, Total	NS	3 U	3 U

Table 6
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Groundwater Analytical Results
Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC Class GA AWQS µg/L	MW-X-20171211 12/11/2017 1 µg/L	MW-11-20171211 12/11/2017 1 µg/L
1,1,1-Trichloroethane	5	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U
1,2,3-Trichlorobenzene	5	1 UJ	1 UJ
1,2,4-Trichlorobenzene	5	1 UJ	1 UJ
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U
1,4-Dioxane (P-Dioxane)	NS	100 U	100 U
2-Hexanone	50	5 U	5 U
Acetone	50	2 J	2.6 J
Benzene	1	1 U	1 U
Bromochloromethane	5	1 U	1 U
Bromodichloromethane	50	1 U	1 U
Bromoform	50	1 U	1 U
Bromomethane	5	1 UJ	1 UJ
Carbon Disulfide	60	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U
Chlorobenzene	5	1 U	1 U
Chloroethane	5	1 U	1 U
Chloroform	7	0.88 J	0.77 J
Chloromethane	5	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U
Cis-1,3-Dichloropropene	NS	1 U	1 U
Cyclohexane	NS	1 UJ	1 UJ
Dibromochloromethane	50	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U
Ethylbenzene	5	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U
M,P-Xylenes	5	2 U	2 U
Methyl Acetate	NS	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U
Methylcyclohexane	NS	1 U	1 U
Methylene Chloride	5	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	5	1 U	1 U
Styrene	5	1 U	1 U
Tert-Butyl Methyl Ether	10	1 U	1 U
Tetrachloroethylene (PCE)	5	**18.9**	**19.7**
Toluene	5	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U
Trans-1,3-Dichloropropene	NS	1 U	1 U
Trichloroethylene (TCE)	5	0.64 J	0.77 J
Trichlorofluoromethane	5	1 U	1 U
Vinyl Chloride	2	1 U	1 U
Xylenes, Total	NS	3 U	3 U

Table 6
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Groundwater Analytical Results
Volatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC Class GA AWQS µg/L	FB-20171211 12/11/2017 1 µg/L	TB-20171211 12/11/2017 1 µg/L
1,1,1-Trichloroethane	5	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U
1,2,3-Trichlorobenzene	5	1 UJ	1 UJ
1,2,4-Trichlorobenzene	5	1 UJ	1 UJ
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U
1,4-Dioxane (P-Dioxane)	NS	100 U	100 U
2-Hexanone	50	5 U	5 U
Acetone	50	5 U	5 U
Benzene	1	1 U	1 U
Bromochloromethane	5	1 U	1 U
Bromodichloromethane	50	1 U	1 U
Bromoform	50	1 U	1 U
Bromomethane	5	1 UJ	1 UJ
Carbon Disulfide	60	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U
Chlorobenzene	5	1 U	1 U
Chloroethane	5	1 U	1 U
Chloroform	7	1 U	1 U
Chloromethane	5	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U
Cis-1,3-Dichloropropene	NS	1 U	1 U
Cyclohexane	NS	1 UJ	1 UJ
Dibromochloromethane	50	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U
Ethylbenzene	5	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U
M,P-Xylenes	5	2 U	2 U
Methyl Acetate	NS	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U
Methylcyclohexane	NS	1 U	1 U
Methylene Chloride	5	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	5	1 U	1 U
Styrene	5	1 U	1 U
Tert-Butyl Methyl Ether	10	1 U	1 U
Tetrachloroethylene (PCE)	5	1 U	1 U
Toluene	5	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U
Trans-1,3-Dichloropropene	NS	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U
Vinyl Chloride	2	1 U	1 U
Xylenes, Total	NS	3 U	3 U

Table 7
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Groundwater Analytical Results
Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC Class GA AWQS µg/L	MW-1-20171211 12/11/2017 1 µg/L	MW-4-20171211 12/11/2017 1 µg/L	MW-X-20171211 12/11/2017 1 µg/L
1,2,4,5-Tetrachlorobenzene	5	10 U	10 UJ	10 UJ
2,3,4,6-Tetrachlorophenol	NS	10 U	10 U	10 U
2,4,5-Trichlorophenol	NS	10 U	10 U	10 U
2,4,6-Trichlorophenol	NS	10 U	10 U	10 U
2,4-Dichlorophenol	5	10 U	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	10 U
2,4-Dinitrophenol	10	10 UJ	10 UJ	10 UJ
2,4-Dinitrotoluene	5	10 U	10 U	10 U
2,6-Dinitrotoluene	5	10 U	10 U	10 U
2-Chloronaphthalene	10	10 U	10 U	10 U
2-Chlorophenol	NS	10 U	10 U	10 U
2-Methylnaphthalene	NS	10 U	10 U	10 U
2-Methylphenol (O-Cresol)	NS	10 U	10 U	10 U
2-Nitroaniline	5	10 U	10 U	10 U
2-Nitrophenol	NS	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	10 U	10 U	10 U
3-Methylphenol/4-Methylphenol	NS	10 U	10 U	10 U
3-Nitroaniline	5	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	10 U	10 U	10 U
4-Bromophenyl Phenyl Ether	NS	10 U	10 U	10 U
4-Chloro-3-Methylphenol	NS	10 U	10 U	10 U
4-Chloroaniline	5	10 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10 U	10 U	10 U
4-Nitroaniline	5	10 U	10 U	10 U
4-Nitrophenol	NS	10 U	10 U	10 U
Acenaphthene	20	10 U	10 U	10 U
Acenaphthylene	NS	10 U	10 U	10 U
Acetophenone	NS	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U
Atrazine	7.5	10 U	10 U	10 U
Benzaldehyde	NS	10 U	10 U	10 U
Benzo(A)Anthracene	0.002	10 U	10 U	10 U
Benzo(A)Pyrene	ND	10 U	10 U	10 U
Benzo(B)Fluoranthene	0.002	10 U	10 U	10 U
Benzo(G,H,I)Perylene	NS	10 U	10 U	10 U
Benzo(K)Fluoranthene	0.002	10 U	10 U	10 U
Benzyl Butyl Phthalate	50	10 U	10 U	10 U
Biphenyl (Diphenyl)	5	10 U	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	10 U	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	10 U	10 U	10 U
Bis(2-Chloroisopropyl) Ether	5	10 U	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	10 U	10 U	10 U
Caprolactam	NS	10 U	10 U	10 U
Carbazole	NS	10 U	10 U	10 U
Chrysene	0.002	10 U	10 U	10 U
Dibenz(A,H)Anthracene	NS	10 U	10 U	10 U
Dibenzofuran	NS	10 U	10 U	10 U
Diethyl Phthalate	50	10 U	10 U	10 U
Dimethyl Phthalate	50	10 U	10 U	10 U
Di-N-Butyl Phthalate	50	10 U	10 U	10 U
Di-N-Octylphthalate	50	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U
Hexachlorobenzene	0.04	10 U	10 U	10 U
Hexachlorobutadiene	0.5	10 U	10 U	10 U
Hexachlorocyclopentadiene	5	10 U	10 U	10 U
Hexachloroethane	5	10 U	10 U	10 U
Indeno(1,2,3-C,D)Pyrene	0.002	10 U	10 U	10 U
Isophorone	50	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U
Nitrobenzene	0.4	10 U	10 U	10 U
N-Nitrosodi-N-Propylamine	NS	10 UJ	10 UJ	10 UJ
N-Nitrosodiphenylamine	50	10 UJ	10 UJ	10 UJ
Pentachlorophenol	NS	10 U	10 U	10 U
Phenanthrene	50	10 U	10 U	10 U
Phenol	1	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U

Table 7
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Groundwater Analytical Results
Semivolatile Organic Compounds

Sample ID Date Sampled Dilution Factor Unit	NYSDEC Class GA AWQS µg/L	MW-11-20171211 12/11/2017 1 µg/L	FB-20171211 12/11/2017 1 µg/L
1,2,4,5-Tetrachlorobenzene	5	10 UJ	10 UJ
2,3,4,6-Tetrachlorophenol	NS	10 U	10 UJ
2,4,5-Trichlorophenol	NS	10 U	10 UJ
2,4,6-Trichlorophenol	NS	10 U	10 UJ
2,4-Dichlorophenol	5	10 U	10 UJ
2,4-Dimethylphenol	50	10 U	10 UJ
2,4-Dinitrophenol	10	10 UJ	10 UJ
2,4-Dinitrotoluene	5	10 U	10 U
2,6-Dinitrotoluene	5	10 U	10 U
2-Chloronaphthalene	10	10 U	10 U
2-Chlorophenol	NS	10 U	10 UJ
2-Methylnaphthalene	NS	10 U	10 UJ
2-Methylphenol (O-Cresol)	NS	10 U	10 U
2-Nitroaniline	5	10 U	10 U
2-Nitrophenol	NS	10 U	10 UJ
3,3'-Dichlorobenzidine	5	10 U	10 U
3-Methylphenol/4-Methylphenol	NS	10 U	10 UJ
3-Nitroaniline	5	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	10 U	10 UJ
4-Bromophenyl Phenyl Ether	NS	10 U	10 U
4-Chloro-3-Methylphenol	NS	10 U	10 UJ
4-Chloroaniline	5	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10 U	10 U
4-Nitroaniline	5	10 U	10 U
4-Nitrophenol	NS	10 U	10 U
Acenaphthene	20	10 U	10 U
Acenaphthylene	NS	10 U	10 U
Acetophenone	NS	10 U	10 U
Anthracene	50	10 U	10 U
Atrazine	7.5	10 U	10 U
Benzaldehyde	NS	10 U	10 U
Benzo(A)Anthracene	0.002	10 U	10 U
Benzo(A)Pyrene	ND	10 U	10 U
Benzo(B)Fluoranthene	0.002	10 U	10 U
Benzo(G,H,I)Perylene	NS	10 U	10 U
Benzo(K)Fluoranthene	0.002	10 U	10 U
Benzyl Butyl Phthalate	50	10 U	10 U
Biphenyl (Diphenyl)	5	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	10 U	10 U
Bis(2-Chloroisopropyl) Ether	5	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	10 U	10 U
Caprolactam	NS	10 U	10 U
Carbazole	NS	10 U	10 U
Chrysene	0.002	10 U	10 U
Dibenz(A,H)Anthracene	NS	10 U	10 U
Dibenzofuran	NS	10 U	10 U
Diethyl Phthalate	50	10 U	10 U
Dimethyl Phthalate	50	10 U	10 U
Di-N-Butyl Phthalate	50	10 U	10 U
Di-N-Octylphthalate	50	10 U	10 U
Fluoranthene	50	10 U	10 U
Fluorene	50	10 U	10 U
Hexachlorobenzene	0.04	10 U	10 U
Hexachlorobutadiene	0.5	10 U	10 U
Hexachlorocyclopentadiene	5	10 U	10 UJ
Hexachloroethane	5	10 U	10 U
Indeno(1,2,3-C,D)Pyrene	0.002	10 U	10 U
Isophorone	50	10 U	10 U
Naphthalene	10	10 U	10 U
Nitrobenzene	0.4	10 U	10 U
N-Nitrosodi-N-Propylamine	NS	10 UJ	10 UJ
N-Nitrosodiphenylamine	50	10 UJ	10 UJ
Pentachlorophenol	NS	10 U	10 UJ
Phenanthrene	50	10 U	10 U
Phenol	1	10 U	10 UJ
Pyrene	50	10 U	10 U

Table 8
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Groundwater Analytical Results
Metals

Sample ID Date Sampled Dilution Factor Unit	NYSDEC Class GA AWQS µg/L	MW-1-20171211 12/11/2017 1 µg/L	MW-4-20171211 12/11/2017 1 µg/L	MW-X-20171211 12/11/2017 1 µg/L	MW-11-20171211 12/11/2017 1 µg/L	FB-20171211 12/11/2017 1 µg/L
Total Metals						
Aluminum	**NS**	21.2 J	87.8 J	51.8 J	243	50 U
Antimony	**3**	25 U	25 U	25 U	25 U	25 U
Arsenic	**25**	10 U	10 U	10 U	10 U	10 U
Barium	**1,000**	68.1	73.3	69.9	64.1	50 U
Beryllium	**3**	3 U	3 U	3 U	3 U	3 U
Cadmium	**5**	3 U	3 U	3 U	3 U	3 U
Calcium	**NS**	59,100	61,700	59,500	69,200	111 J
Chromium, Total	**50**	6.49 JH	10.6 JH	4.56 JH	28.7 JH	9.7 JH
Cobalt	**NS**	15 U	15 U	15 U	15 U	15 U
Copper	**200**	2.6 J	2.87 J	2.19 J	10 U	10 U
Iron	**300**	61.7 JH	220 JH	122 JH	**644 JH**	36.3 JH
Lead	**25**	3.51 J	5.21 J	4.36 J	5.59 J	6 U
Magnesium	**35,000**	11,200	9,110	8,730	23,000	1,000 U
Manganese	**300**	17.3	31.4	21.4	62.9	10 U
Mercury	**0.7**	0.2 U	0.2 U	0.105 J	0.2 U	0.2 U
Nickel	**100**	20 U	5.56 JH	20 U	7.31 JH	20 U
Potassium	**NS**	2,860	2,700	2,610	2470	1,000 U
Selenium	**10**	10 U	10 U	10 U	10 U	10 U
Silver	**50**	5 U	5 U	5 U	5 U	5 U
Sodium	**20,000**	**75,500**	**118,000**	**114,000**	**59,300**	1,000 U
Thallium	**0.5**	20 U	20 U	20 U	20 U	20 U
Vanadium	**NS**	20 U	20 U	20 U	20 U	20 U
Zinc	**2,000**	11.5 J	9.44 J	8.25 J	22.8	9.22 J
Dissolved Metals						
Aluminum	**NS**	50 U	50 U	50 U	50 U	NA
Antimony	**3**	25 U	25 U	25 U	25 U	NA
Arsenic	**25**	10 U	10 U	10 U	10 U	NA
Barium	**1,000**	72	71.8	68.7	59.7	NA
Beryllium	**3**	3 U	3 U	3 U	3 U	NA
Cadmium	**5**	3 U	3 U	3 U	3 U	NA
Calcium	**NS**	60,100	59,000	56,300	65,800	NA
Chromium, Total	**50**	6.8	1.56 J	2.96 J	8.14	NA
Cobalt	**NS**	15 U	15 U	15 U	15 U	NA
Copper	**200**	2.92 J	2.09 J	2.76 J	10 U	NA
Iron	**300**	34.6 J	50 U	17.1 J	38.9 J	NA
Lead	**25**	1.91 J	2.17 J	1.75 J	2.12 J	NA
Magnesium	**35,000**	11,100	8,410	8,220	21,600	NA
Manganese	**300**	16.3	14.1	11.2	9.17 J	NA
Mercury	**0.7**	0.2 U	0.2 U	0.2 U	0.1 J	NA
Nickel	**100**	20 U	20 U	20 U	20 U	NA
Potassium	**NS**	2,870	2,490	2,380	2,240	NA
Selenium	**10**	10 U	10 U	10 U	10 U	NA
Silver	**50**	5 U	5 U	5 U	5 U	NA
Sodium	**20,000**	**78,000**	**114,000**	**109,000**	**57,100**	NA
Thallium	**0.5**	20 U	20 U	20 U	20 U	NA
Vanadium	**NS**	20 U	20 U	20 U	20 U	NA
Zinc	**2,000**	13.1 J	7.68 J	8.74 J	10.3 J	NA

Table 9

7 Saratoga Avenue and 1510-1524 Broadway

Brooklyn, New York

Remedial Investigation Groundwater Analytical Results

Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC Class GA AWQS µg/L	MW-1-20171211 12/11/2017 1 µg/L	MW-4-20171211 12/11/2017 1 µg/L	MW-X-20171211 12/11/2017 1 µg/L
Aldrin	**ND**	0.05 U	0.05 U	0.05 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.01**	0.05 U	0.05 U	0.05 U
Alpha Endosulfan	**NS**	0.05 U	0.05 U	0.05 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.04**	0.05 U	0.05 U	0.05 U
Beta Endosulfan	**NS**	0.05 U	0.05 U	0.05 U
cis-Chlordane	**NS**	0.05 U	0.05 U	0.05 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	0.05 U	0.05 U	0.05 U
Dieldrin	**0.004**	0.05 U	0.05 U	0.05 U
Endosulfan Sulfate	**NS**	0.05 U	0.05 U	0.05 U
Endrin	**ND**	0.05 U	0.05 U	0.05 U
Endrin Aldehyde	**5**	0.05 U	0.05 U	0.05 U
Endrin Ketone	**5**	0.05 U	0.05 U	0.05 U
Gamma Bhc (Lindane)	**0.05**	0.05 U	0.05 U	0.05 U
Heptachlor	**0.04**	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	**0.03**	0.05 U	0.05 U	0.05 U
Methoxychlor	**35**	0.05 U	0.05 U	0.05 U
P,P'-DDD	**0.3**	0.05 U	0.05 U	0.05 U
P,P'-DDE	**0.2**	0.05 U	0.05 U	0.05 U
P,P'-DDT	**0.2**	0.05 U	0.05 U	0.05 U
Toxaphene	**0.06**	0.5 U	0.5 U	0.5 U
trans-Chlordane	**NS**	0.05 U	0.05 U	0.05 U

Table 9

7 Saratoga Avenue and 1510-1524 Broadway

Brooklyn, New York

Remedial Investigation Groundwater Analytical Results

Pesticides

Sample ID Date Sampled Dilution Factor Unit	NYSDEC Class GA AWQS µg/L	MW-11-20171211 12/11/2017 1 µg/L	FB-20171211 12/11/2017 1 µg/L
Aldrin	**ND**	0.05 U	0.05 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.01**	0.05 U	0.05 U
Alpha Endosulfan	**NS**	0.05 U	0.05 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.04**	0.05 U	0.05 U
Beta Endosulfan	**NS**	0.05 U	0.05 U
cis-Chlordane	**NS**	0.05 U	0.05 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	0.05 U	0.05 U
Dieldrin	**0.004**	0.05 U	0.05 U
Endosulfan Sulfate	**NS**	0.05 U	0.05 U
Endrin	**ND**	0.05 U	0.05 U
Endrin Aldehyde	**5**	0.05 U	0.05 U
Endrin Ketone	**5**	0.05 U	0.05 U
Gamma Bhc (Lindane)	**0.05**	0.05 U	0.05 U
Heptachlor	**0.04**	0.05 U	0.05 U
Heptachlor Epoxide	**0.03**	0.05 U	0.05 U
Methoxychlor	**35**	0.05 U	0.05 U
P,P'-DDD	**0.3**	0.05 U	0.05 U
P,P'-DDE	**0.2**	0.05 U	0.05 U
P,P'-DDT	**0.2**	0.05 U	0.05 U
Toxaphene	**0.06**	0.5 U	0.5 U
trans-Chlordane	**NS**	0.05 U	0.05 U

Table 10
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Groundwater Analytical Results
Polychlorinated Biphenyls

Sample ID Date Sampled Dilution Factor Unit	NYSDEC Class GA AWQS µg/L	MW-1-20171211 12/11/2017 1 µg/L	MW-4-20171211 12/11/2017 1 µg/L	MW-X-20171211 12/11/2017 1 µg/L	MW-11-20171211 12/11/2017 1 µg/L	FB-20171211 12/11/2017 1 µg/L
PCB-1016 (Aroclor 1016)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1221 (Aroclor 1221)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1232 (Aroclor 1232)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1242 (Aroclor 1242)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1248 (Aroclor 1248)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1254 (Aroclor 1254)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1260 (Aroclor 1260)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1262 (Aroclor 1262)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1268 (Aroclor 1268)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Tables 6-10
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Groundwater Analytical Results
Notes

GENERAL

NS : No standard.

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

JH : The concentration given is an estimated value biased high.

ND : Non detect.

NA : Not analyzed

GROUNDWATER

NYSDEC Class GA Ambient Water Quality Standards (AWQS) : New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values.

µg/L : micrograms per Liter = parts per billion (ppb)

Exceedances of NYSDEC Class GA AWQS are highlighted in bold font.

Table 11
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Vapor Analytical Results
Volatile Organic Compounds

Sample ID	SV-1-20171129	SV-2-20171129	SV-3-20171129
Date Sampled	11/29/2017	11/29/2017	11/29/2017
Dilution Factor	10	10	10
Unit	ug/m3	ug/m3	ug/m3
1,1,1-Trichloroethane	0.16 U	0.16 U	0.33 U
1,1,2,2-Tetrachloroethane	3.43 U	3.43 U	6.87 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	3.83 U	3.83 U	7.66 U
1,1,2-Trichloroethane	2.73 U	2.73 U	5.46 U
1,1-Dichloroethane	2.02 U	2.02 U	4.05 U
1,1-Dichloroethene	1.98 U	1.98 U	3.96 U
1,2,4-Trimethylbenzene	10.8	12.3	11.8
1,2-Dibromoethane (Ethylene Dibromide)	3.84 U	3.84 U	7.69 U
1,2-Dichloroethane	2.02 U	2.02 U	4.05 U
1,2-Dichloropropane	2.31 U	2.31 U	4.62 U
1,2-Dichlorotetrafluoroethane	3.49 U	3.49 U	6.99 U
1,3,5-Trimethylbenzene (Mesitylene)	3.1	3.88	3.44 J
1,3-Butadiene	1.11 U	1.11 U	2.21 U
1,4-Dioxane (P-Dioxane)	1.8 U	1.8 U	3.6 U
2,2,4-Trimethylpentane	1.54 J	4.2	2.15 J
2-Chlorotoluene	2.59 U	2.59 U	5.18 U
4-Ethyltoluene	6.88	8.85	6.88
Acetone	78.9 DJL	90.3 DJL	86.5 DJL
Allyl Chloride (3-Chloropropene)	1.57 UJ	1.57 U	3.13 U
Benzene	6.39	16.6	7.99
Bromodichloromethane	3.35 U	3.35 U	6.7 U
Bromoform	5.17 U	5.17 U	10.3 U
Bromomethane	1.94 U	1.94 U	3.88 U
Carbon Disulfide	2.37	2.9	5.61
Carbon Tetrachloride	0.19 U	25.2	0.38 U
Chlorobenzene	2.3 U	2.3 U	4.61 U
Chloroethane	1.32 U	1.32 U	2.64 U
Chloroform	1.12 J	3.66	4.88 U
Chloromethane	1.03 U	1.03 U	2.07 U
Cis-1,2-Dichloroethylene	1.98 U	1.98 U	3.96 U
Cis-1,3-Dichloropropene	2.27 U	2.27 U	4.54 U
Cyclohexane	1.72 U	1.72 U	3.44 U
Dibromochloromethane	4.26 U	4.26 U	8.52 U
Dichlorodifluoromethane	2.08 J	2.47 U	1.29 J
Ethylbenzene	15.2	20.4	13.9
M,P-Xylenes	58.2	76.4	56.5
Methyl Ethyl Ketone (2-Butanone)	9.44	19.2	10
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	1.19 J	3.11	4.1 U
Methylene Chloride	1.74 U	10.4	22.2
N-Heptane	9.02	10.7	7.38
N-Hexane	10.2	25.7	16.9
O-Xylene (1,2-Dimethylbenzene)	14.8	20.4	14.3
Styrene	1.41 J	2.13 U	4.26 U
Tert-Butyl Alcohol	10.9 JL	6.97	21.5
Tert-Butyl Methyl Ether	1.8 U	1.8 U	3.61 U
Tetrachloroethylene (PCE)	**277 D**	**43.4**	27.1
Tetrahydrofuran	1.47 U	1.47 U	2.95 U
Toluene	51.2 D	69 D	56.2
Trans-1,2-Dichloroethene	1.98 U	1.98 U	3.96 U
Trans-1,3-Dichloropropene	2.27 U	2.27 U	4.54 U
Trichloroethylene (TCE)	**10.2**	**8.06**	0.32 U
Trichlorofluoromethane	2.81	1.63 J	5.62 U
Vinyl Bromide	2.19 U	2.19 U	4.37 U
Vinyl Chloride	0.08 U	0.08 U	0.15 U

Table 11
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Vapor Analytical Results
Volatile Organic Compounds

Sample ID	SV-4-20171129	SV-5-20171129	SV-7-20171129
Date Sampled	11/29/2017	11/29/2017	11/29/2017
Dilution Factor	10	10	10
Unit	ug/m3	ug/m3	µg/m^3
1,1,1-Trichloroethane	0.33 U	0.33 U	0.33 U
1,1,2,2-Tetrachloroethane	6.87 U	6.87 U	6.87 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	7.66 U	7.66 U	7.66 U
1,1,2-Trichloroethane	5.46 U	5.46 U	5.46 U
1,1-Dichloroethane	4.05 U	4.05 U	4.05 U
1,1-Dichloroethene	3.96 U	3.96 U	3.96 U
1,2,4-Trimethylbenzene	15.2	14.8	26.1
1,2-Dibromoethane (Ethylene Dibromide)	7.69 U	7.69 U	7.69 U
1,2-Dichloroethane	4.05 U	4.05 U	4.05 U
1,2-Dichloropropane	4.62 U	4.62 U	4.62 U
1,2-Dichlorotetrafluoroethane	6.99 U	6.99 U	6.99 U
1,3,5-Trimethylbenzene (Mesitylene)	4.92	4.13 J	8.36
1,3-Butadiene	2.21 U	2.21 U	2.21 U
1,4-Dioxane (P-Dioxane)	3.6 U	3.6 U	3.6 U
2,2,4-Trimethylpentane	59.8	1.59 J	3.36 J
2-Chlorotoluene	5.18 U	5.18 U	5.18 U
4-Ethyltoluene	9.34	8.36	16.2
Acetone	76.2 DJL	59.6 DJL	118 DJL
Allyl Chloride (3-Chloropropene)	3.13 U	3.13 U	3.13 U
Benzene	7.35	4.79	9.26
Bromodichloromethane	6.7 U	6.7 U	6.7 U
Bromoform	10.3 U	10.3 U	10.3 U
Bromomethane	3.88 U	3.88 U	3.88 U
Carbon Disulfide	3.43	3.11 U	18.1
Carbon Tetrachloride	0.38 U	0.38 U	0.38 U
Chlorobenzene	4.61 U	4.61 U	4.61 U
Chloroethane	2.64 U	2.64 U	2.64 U
Chloroform	2.15 J	4.88 U	4.88 U
Chloromethane	2.07 U	2.07 U	2.07 U
Cis-1,2-Dichloroethylene	3.96 U	3.96 U	3.96 U
Cis-1,3-Dichloropropene	4.54 U	4.54 U	4.54 U
Cyclohexane	3.44 U	3.44 U	3.44 U
Dibromochloromethane	8.52 U	8.52 U	8.52 U
Dichlorodifluoromethane	4.94 U	4.94 U	4.94 U
Ethylbenzene	19.1	12.2	28.7
M,P-Xylenes	78.2	52.1	109
Methyl Ethyl Ketone (2-Butanone)	12.1	16.8	38
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	4.1 U	4.1 U	2.38 J
Methylene Chloride	3.47 U	21.2	13.9
N-Heptane	9.43	5.74	35.6
N-Hexane	17.3	15.2	79.3
O-Xylene (1,2-Dimethylbenzene)	21.3	14.3	31.7
Styrene	4.26 U	1.36 J	2.04 J
Tert-Butyl Alcohol	7.88	19.7	8.49
Tert-Butyl Methyl Ether	1.51 J	3.61 U	3.61 U
Tetrachloroethylene (PCE)	14.9	2.58	3.8
Tetrahydrofuran	2.95 U	2.95 U	2.95 U
Toluene	62.9	40.3	89.3
Trans-1,2-Dichloroethene	3.96 U	3.96 U	3.96 U
Trans-1,3-Dichloropropene	4.54 U	4.54 U	4.54 U
Trichloroethylene (TCE)	0.32 U	0.32 U	0.32 U
Trichlorofluoromethane	1.35 J	5.62 U	6.18
Vinyl Bromide	4.37 U	4.37 U	4.37 U
Vinyl Chloride	0.15 U	0.15 U	0.15 U

Table 11
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Vapor Analytical Results
Volatile Organic Compounds

Sample ID	SV-8-20171129	SV-9-20171129	SV-10-20171129
Date Sampled	11/29/2017	11/29/2017	11/29/2017
Dilution Factor	10	10	4/10
Unit	µg/m^3	µg/m^3	µg/m^3
1,1,1-Trichloroethane	0.33 U	0.33 UJ	0.65 UJ
1,1,2,2-Tetrachloroethane	6.87 U	6.87 U	13.7 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	7.66 U	7.66 UJ	15.3 UJ
1,1,2-Trichloroethane	5.46 U	5.46 UJ	10.9 UJ
1,1-Dichloroethane	4.05 U	4.05 UJ	8.09 UJ
1,1-Dichloroethene	3.96 U	3.96 UJ	7.93 UJ
1,2,4-Trimethylbenzene	35.9	20.6	27.5
1,2-Dibromoethane (Ethylene Dibromide)	7.69 U	7.69 U	15.4 U
1,2-Dichloroethane	4.05 U	4.05 U	8.09 U
1,2-Dichloropropane	4.62 U	4.62 U	9.24 U
1,2-Dichlorotetrafluoroethane	6.99 U	6.99 U	14 U
1,3,5-Trimethylbenzene (Mesitylene)	11.3	6.88	8.36 J
1,3-Butadiene	2.21 U	2.21 UJ	4.42 UJ
1,4-Dioxane (P-Dioxane)	3.6 U	3.6 U	7.21 U
2,2,4-Trimethylpentane	30.4	2.9 J	2.06 J
2-Chlorotoluene	5.18 U	5.18 U	10.4 U
4-Ethyltoluene	19.2	11.8	9.83 U
Acetone	53 DJL	105 DJL	89.6 DJL
Allyl Chloride (3-Chloropropene)	3.13 U	3.13 UJ	6.26 UJ
Benzene	13.4	7.35	5.11 J
Bromodichloromethane	6.7 U	6.7 U	13.4 U
Bromoform	10.3 U	10.3 U	20.7 U
Bromomethane	3.88 U	3.88 UJ	7.77 UJ
Carbon Disulfide	3.11 U	38 JL	6.23 UJ
Carbon Tetrachloride	0.38 U	0.38 U	0.75 U
Chlorobenzene	4.61 U	4.61 U	9.21 U
Chloroethane	2.64 U	2.64 UJ	5.28 UJ
Chloroform	4.88 U	4.88 UJ	9.77 UJ
Chloromethane	2.07 U	2.07 UJ	4.13 UJ
Cis-1,2-Dichloroethylene	3.96 U	3.96 U	7.93 UJ
Cis-1,3-Dichloropropene	4.54 U	4.54 U	9.08 U
Cyclohexane	3.44 U	3.44 UJ	6.88 UJ
Dibromochloromethane	8.52 U	8.52 U	17 U
Dichlorodifluoromethane	1.68 J	3.66 JL	9.89 UJ
Ethylbenzene	30.8	20	19.1
M,P-Xylenes	117	81.7	79.5
Methyl Ethyl Ketone (2-Butanone)	3.54	29.2	8.85
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	9.02	4.1 U	8.2 U
Methylene Chloride	7.64	3.47 UJ	6.95 UJ
N-Heptane	23.4	11.5	9.43 JL
N-Hexane	22.2	15.9 JL	13.4 JL
O-Xylene (1,2-Dimethylbenzene)	35.6	22.6	19.1
Styrene	4.26 U	1.87 J	8.52 U
Tert-Butyl Alcohol	3.03 U	7.58 JL	6.06 UJ
Tert-Butyl Methyl Ether	3.61 U	3.61 U	7.21 UJ
Tetrachloroethylene (PCE)	1.9	4.88	10.8
Tetrahydrofuran	2.95 U	2.95 U	5.9 U
Toluene	111 D	62.6	66.3
Trans-1,2-Dichloroethene	3.96 U	3.96 UJ	7.93 UJ
Trans-1,3-Dichloropropene	4.54 U	4.54 U	9.08 U
Trichloroethylene (TCE)	1.61	0.32 U	0.64 U
Trichlorofluoromethane	13.5	69.1 JL	59.6 JL
Vinyl Bromide	4.37 U	4.37 U	8.74 U
Vinyl Chloride	0.15 U	0.15 UJ	0.31 UJ

Table 11
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Vapor Analytical Results
Volatile Organic Compounds

Sample ID	SV-11-20171129	
Date Sampled	11/29/2017	
Dilution Factor	4/10	
Unit	µg/m^3	
1,1,1-Trichloroethane	0.65	U
1,1,2,2-Tetrachloroethane	13.7	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	15.3	U
1,1,2-Trichloroethane	10.9	U
1,1-Dichloroethane	8.09	U
1,1-Dichloroethene	7.93	U
1,2,4-Trimethylbenzene	25.6	
1,2-Dibromoethane (Ethylene Dibromide)	15.4	U
1,2-Dichloroethane	8.09	U
1,2-Dichloropropane	9.24	U
1,2-Dichlorotetrafluoroethane	14	U
1,3,5-Trimethylbenzene (Mesitylene)	12.8	
1,3-Butadiene	4.42	U
1,4-Dioxane (P-Dioxane)	7.21	U
2,2,4-Trimethylpentane	35	
2-Chlorotoluene	10.4	U
4-Ethyltoluene	17.7	
Acetone	79.1	DJL
Allyl Chloride (3-Chloropropene)	6.26	U
Benzene	30.7	
Bromodichloromethane	13.4	U
Bromoform	20.7	U
Bromomethane	7.77	U
Carbon Disulfide	6.23	U
Carbon Tetrachloride	0.75	U
Chlorobenzene	9.21	U
Chloroethane	5.28	U
Chloroform	9.77	U
Chloromethane	4.13	U
Cis-1,2-Dichloroethylene	7.93	U
Cis-1,3-Dichloropropene	9.08	U
Cyclohexane	6.88	U
Dibromochloromethane	17	U
Dichlorodifluoromethane	7.42	J
Ethylbenzene	84.7	
M,P-Xylenes	273	
Methyl Ethyl Ketone (2-Butanone)	8.85	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	11.9	
Methylene Chloride	6.95	U
N-Heptane	29.9	
N-Hexane	15.2	
O-Xylene (1,2-Dimethylbenzene)	85.1	
Styrene	8.52	U
Tert-Butyl Alcohol	6.06	U
Tert-Butyl Methyl Ether	7.21	U
Tetrachloroethylene (PCE)	8.14	
Tetrahydrofuran	5.9	U
Toluene	315	D
Trans-1,2-Dichloroethene	7.93	U
Trans-1,3-Dichloropropene	9.08	U
Trichloroethylene (TCE)	0.64	U
Trichlorofluoromethane	16.9	
Vinyl Bromide	8.74	U
Vinyl Chloride	0.31	U

Table 11
7 Saratoga Avenue and 1510-1524 Broadway
Brooklyn, New York
Remedial Investigation Soil Vapor Analytical Results
Notes

GENERAL

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

JL : The concentration given is an estimated value biased low.

D : Indicates the reported value is from a diluted analysis.

SOIL VAPOR

µg/m^3 : micrograms per cubic meter of air

APPENDIX A
PHASE I ESA

APPENDIX B

FIELD SAMPLING LOGS

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-2**

Sheet 1 of 1

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1120 **Finish Time:** 1140
Date: 11/28/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1 - 5	40	Brown SAND, some Silt, trace fine Gravel.	ND	DRY	ND	ND	SB-2(0-2)-20171127
6 - 10	37	Brown SAND, little Silt, trace fine Gravel.	ND	DRY	ND	ND	
11 - 15	41	Brown SAND, little Silt, trace fine Gravel.	ND	DRY	ND	ND	SB-2(10-12)-20171127
16 - 20							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater was not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-3**
Sheet 1 of 1

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1000 **Finish Time:** 1100
Date: 11/27/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	26	Top 2": Brown SILT, some Sand, Roots (FILL).	ND	DRY	ND	ND	SB-3(0-2)-20171127
2		Next 18": Gray SAND, some Silt, fine Gravel, trace Wood, Brick (FILL).	ND	DRY	ND	ND	
3							
4		Bottom 6": Brown SAND, some Silt, fine Gravel, trace Glass, Brick, Wood (FILL).	ND	DRY	ND	ND	
5							
6	24	Top 2": SLOUGH.	ND	DRY	ND	ND	
7		Next 8": Gray SAND, some Silt, fine Gravel (FILL).	ND	DRY	ND	ND	
8		Next 6": BRICK (FILL).	ND	DRY	ND	ND	
9							
10		Bottom 8": Brown SAND, some Silt, trace fine Gravel, Brick, Metal Nails, Ceramics (FILL).	ND	DRY	ND	ND	
11	40	Top 10": SLOUGH.	ND	DRY	ND	ND	SB-3(10-12)-20171127
12		Next 18": Brown SAND, some Silt, fine Gravel, trace Brick, Roots (FILL).	ND	DRY	ND	ND	
13							
14		Bottom 12": Light Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater was not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-5**
Sheet 1 of 1

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1100 **Finish Time:** 1120
Date: 11/27/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	26	Top 6": Brown SILT, some Sand, Roots (FILL).	ND	DRY	ND	ND	SB-5(0-2)-20171127
2							
3		Bottom 20": Brown SAND, some Silt, trace Brick, Concrete, fine Gravel, Wood (FILL).	ND	DRY	ND	ND	
4							
5							
6	20	Top 3": SLOUGH.	ND	DRY	ND	ND	
7							
8		Bottom 17": Brown SAND, some Silt, trace Brick, Wood, fine Gravel (FILL).	ND	DRY	ND	ND	
9							
10							
11	45	Light Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	SB-5(10-12)-20171127
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater was not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-6**

Sheet 1 of 3

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1410 **Finish Time:** 1530
Date: 11/28/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	40	Top 4": Brown SILT, some Sand, trace fine Gravel, Glass, Plastic, Roots, Grass (FILL).	ND	DRY	ND	ND	SB-6(0-2)-20171128
2							
3		Bottom 24": Brown SAND, some Silt, Brick, little fine Gravel, trace Glass, Wood (FILL).	ND	DRY	ND	ND	
4							
5							
6	41	Top 19": Brown SAND, some Silt, Brick, trace Wood, Concrete, Glass, fine gravel (FILL).	ND	DRY	ND	ND	SB-6(5-7)-20171128
7							
8							
9		Bottom 13": Brown SAND, little Silt, trace fine Gravel.	ND	DRY	ND	ND	
10							
11	46	Brown SAND, little Silt, trace fine Gravel.	ND	DRY	ND	ND	
12							
13							
14							
15							
16	53	Brown SAND, little Silt, trace fine Gravel.	ND	DRY	ND	ND	
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater encountered at approximately 38 feet below grade during soil boring installation.
End of soil boring at 50 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-6**
Sheet 2 of 3

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1410 **Finish Time:** 1530
Date: 11/28/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
21 – 25	48	Brown SAND, little Silt, trace fine Gravel.	ND	DRY	ND	ND	
26 – 30	55	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
31 – 35	49	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
36 – 40	55	Brown SAND, trace Silt, fine Gravel.	ND	MOIST	ND	ND	
		Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater encountered at approximately 38 feet below grade during soil boring installation.
End of soil boring at 50 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-6**
Sheet 3 of 3

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1410 **Finish Time:** 1530
Date: 11/28/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
41 42 43 44 45	55	Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	
46 47 48 49 50	55	Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	
51 52 53 54 55							
56 57 58 59 60							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater encountered at approximately 38 feet below grade during soil boring installation.
End of soil boring at 50 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-7**
Sheet 1 of 1

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1215 **Finish Time:** 1240
Date: 11/27/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	38	Top 6": Brown SILT, some Sand, roots, trace fine Gravel (FILL).	ND	DRY	ND	ND	
2							
3		Next 24": Brown SAND, some Silt, trace Asphalt, Brick, Concrete, Glass, Wood, fine Gravel (FILL).	ND	DRY	ND	ND	SB-7(0-2)-20171127
4		Bottom 8": Brown SAND, some Silt, trace fine Gravel (FILL).	ND	DRY	ND	ND	
5							
6	50	Brown SAND, some Silt, trace fine Gravel.	ND	DRY	ND	ND	SB-7(4-6)-20171127
7							
8							
9							
10							
11	45	Brown SAND, some Silt, trace fine Gravel.	ND	DRY	ND	ND	
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater was not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-8**

Sheet 1 of 1

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling

Start Time: 1140 **Finish Time:** 1200

Date: 11/27/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	35	Top 6": Brown SILT, some Sand, Roots, trace fine Gravel (FILL).	ND	DRY	ND	ND	
2		Next 6": CONCRETE (FILL).	ND	DRY	ND	ND	SB-8(0-2)-20171127
3		Next 15": Brown SAND, some Silt, trace Brick, fine Gravel, Roots (FILL).	ND	DRY	ND	ND	
4							
5		Bottom 8": BRICK (FILL).	ND	DRY	ND	ND	
6	35	Light Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
7							
8							
9							
10							
11	48	Light Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	SB-8(10-12)-20171127
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater was not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-9**
Sheet 1 of 1

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1300 **Finish Time:** 1330
Date: 11/27/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	32	Top 4": Brown SILT, some Sand, Roots, trace fine Gravel (FILL).	ND	DRY	ND	ND	SB-9(0-2)-20171127
2							
3		Bottom 28": Dark Brown SAND and Silt, some Brick, trace Wood, Concrete, fine Gravel (FILL).	ND	DRY	ND	ND	
4							
5							
6	30	Top 18": Dark Brown SAND, some Silt, trace Brick, Asphalt, Wood, Concrete, fine Gravel (FILL).	ND	DRY	ND	ND	SB-9(8-10)-20171127
7							
8		Bottom 12": Brown SAND, some Silt, trace fine Gravel.	ND	DRY	ND	ND	
9							
10							
11	46	Top 23": Brown SAND, some Silt, trace fine Gravel.	ND	DRY	ND	ND	
12		Next 10": Brown SAND, some Silt, clay, trace fine Gravel.	ND	DRY	ND	ND	
13							
14		Bottom 13": Brown SAND, some Silt, trace fine Gravel.	ND	DRY	ND	ND	
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater was not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-10**

Sheet 1 of 1

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1340 **Finish Time:** 1410
Date: 11/27/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	26	Top 6": Brown SILT, some Sand, trace Roots, fine Gravel (FILL).	ND	DRY	ND	ND	SB-10(0-2)-20171127
2							
3		Bottom 20": Brown SAND, some Silt, little Brick, trace Wood, fine Gravel, Plastic Sheeting, Asphalt (FILL).	ND	DRY	ND	ND	SB-X(0-2)-20171127
4							
5							
6	36	Top 28": Brown SAND, some Silt, little Brick, trace fine Gravel, Wood (FILL).	ND	DRY	ND	ND	SB-10(8-10)-20171127
7							
8		Bottom 8": Brown SAND, some Silt, trace fine Gravel (FILL).	ND	DRY	ND	ND	
9							
10							
11	42	Brown SAND, some Silt, trace Brick, fine Gravel.	ND	DRY	ND	ND	
12							
13							
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater was not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING LOG

7 Saratoga Avenue
Brooklyn, NY 11233
AKRF Project Number: 20568.03

Soil Boring ID: **SB-12**

Sheet 1 of 1

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged By:	ML, AKRF

Drilling
Start Time: 1410 **Finish Time:** 1440
Date: 11/27/17

Depth (feet)	Recovery (Inches)	Surface Condition: Soil/Grass	Odor	Moisture	PID	NAPL	Soil Samples Collected for Laboratory Analysis
1	25	Top 4": Brown SILT, some Sand, trace fine Gravel, Roots, Grass (FILL).	ND	DRY	ND	ND	SB-12(0-2)-20171127
2							SB-12(0-2)MS-20171127
3		Bottom 21": Brown SAND, some Silt, little Brick, trace Concrete, Glass, Wood (FILL).	ND	DRY	ND	ND	SB-12(0-2)MSD-20171127
4							
5							
6	24	Brown SAND, some Silt, little Brick, trace Concrete, Glass, Wood (FILL).	ND	DRY	ND	ND	
7							
8							
9							
10							
11	48	Top 40": Brown SAND, some Silt, trace Brick, Concrete, fine Gravel (FILL).	ND	DRY	ND	ND	
12							SB-12(10-12)-20171127
13		Bottom 8": Brown SAND, little Silt, trace fine Gravel.	ND	DRY	ND	ND	
14							
15							
16							
17							
18							
19							
20							

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater was not encountered during soil boring installation.
End of soil boring at 15 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG	7 Saratoga Avenue Brooklyn, NY 11233 AKRF Project Number: 20568.03	Groundwater Monitoring Well ID: Sheet 1 of 3	MW-1	Soil Boring ID:	SB-1

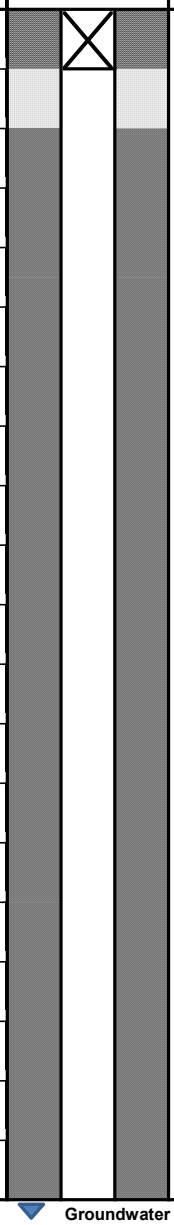
AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged by:	ML, AKRF

Drilling

Start Time: Soil Boring: 0745 Well:0715 **Finish Time:** Soil Boring: 1115 Well:1045

Date: Soil Boring: 11/28/17 Well: 11/30/17

Depth (feet)	Well Construction	Surface Condition: Soil/Grass	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1		**Flush-mounted well cover, locking j-plug, and concrete seal: grade to 1' below grade.** **Non-shrinking cement grout: 1' to 2' below grade.** **2" diameter PVC well casing: 0' to 35' below grade** **No. 00 morie sand: 2' to 31' below grade**	27	Top 3": Brown SILT, some Sand, fine Gravel, trace Filter Fabric. (FILL) Bottom 24": Brown SAND, some Silt, little Brick, Wood, trace Glass, fine Gravel (FILL),	ND ND	DRY DRY	ND ND	ND ND	SB-1(0-2)-20171128
2									
3									
4									
5			24	Top 18": Brown SAND, some Silt, little Brick, trace Concrete, fine Gravel (FILL). Bottom 6": Brown SAND, trace Silt, fine Gravel.	ND ND	DRY DRY	ND ND	ND ND	SB-1(6-8)-20171128
6									
7									
8									
9			42	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
10									
11									
12									
13									
14			49	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
15									
16									
17									
18									
19									
20									

Notes: ▼ **Groundwater Depth Indicator**
Groundwater measured at 36.5 feet below grade in MW-1 on November 30, 2017.
Groundwater monitoring well installed to 50 feet below grade.

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, TAL Metals
Groundwater encountered at approximately 39 feet below grade during soil boring installation.
End of soil boring at 50 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ppm = parts per million** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.
Wells were constructed with Geoprobe® Prepacked Well Screens.

SOIL BORING AND WELL INSTALLATION LOG	7 Saratoga Avenue Brooklyn, NY 11233 AKRF Project Number: 20568.03	Groundwater Monitoring Well ID: Sheet 2 of 3	MW-1	Soil Boring ID:	SB-1

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged by:	ML, AKRF

Drilling

Start Time: Soil Boring: 0745 Well:0715 **Finish Time:** Soil Boring: 1115 Well:1045

Date: Soil Boring: 11/28/17 Well: 11/30/17

Surface Condition: Soil/Grass

Depth (feet)	Well Construction	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
21–40	No. 00 morie sand: 2' to 31' below grade	49	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
		45	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
	Bentonite seal: 31' to 33' below grade No. 2 morie sand: 33' to 50' below grade	48	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
	0.020-inch slotted PVC well screen: 35' to 50' below grade	50	Top 30": Brown SAND, trace Silt, fine Gravel.	ND	MOIST	ND	ND	
			Bottom 20":Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	

Notes: ▼ Groundwater Depth Indicator
Groundwater measured at 36.5 feet below grade in MW-1 on November 30, 2017.
Groundwater monitoring well installed to 50 feet below grade.

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, TAL Metals
Groundwater encountered at approximately 39 feet below grade during soil boring installation.
End of soil boring at 50 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ppm = parts per million** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.
Wells were constructed with Geoprobe® Prepacked Well Screens.

SOIL BORING AND WELL INSTALLATION LOG	7 Saratoga Avenue Brooklyn, NY 11233 AKRF Project Number: 20568.03	Groundwater Monitoring Well ID: Sheet 3 of 3	MW-1	Soil Boring ID:	SB-1

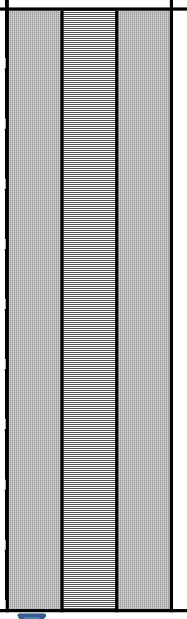
AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged by:	ML, AKRF

Drilling

Start Time: Soil Boring: 0745 Well:0715 **Finish Time:** Soil Boring: 1115 Well:1045

Date: Soil Boring: 11/28/17 Well: 11/30/17

Depth (feet)	Well Construction	Surface Condition: Soil/Grass	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
41		0.020-inch slotted PVC well screen: 35' to 50' below grade	28	Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	
42									
43									
44									
45		No. 2 morie sand: 31' to 50' below grade							
46			54	Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	
47									
48									
49									
50		End cap: 50' below grade							

Notes: Groundwater Depth Indicator

Groundwater measured at 36.5 feet below grade in MW-1 on November 30, 2017.

Groundwater monitoring well installed to 50 feet below grade.

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, TAL Metals

Groundwater encountered at approximately 39 feet below grade during soil boring installation.

End of soil boring at 50 feet below grade.

PID = photoionization detector **NAPL = non-aqueous phase liquid** **ppm = parts per million** **ND = not detected**

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Wells were constructed with Geoprobe® Prepacked Well Screens.

SOIL BORING AND WELL INSTALLATION LOG	7 Saratoga Avenue Brooklyn, NY 11233 AKRF Project Number: 20568.03	Groundwater Monitoring Well ID: Sheet 1 of 3	MW-4	Soil Boring ID:	SB-4

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged by:	ML, AKRF

Drilling

Start Time: Soil Boring: 1130 Well: 1100 **Finish Time:** Soil Boring: 1330 Well: 1415

Date: Soil Boring: 11/28/17 Well: 11/30/17

Surface Condition: Soil/Grass

Flush-mounted well cover, locking j-plug, and concrete seal: grade to 1' below grade.

Non-shrinking cement grout: 1' to 2' below grade.

2" diameter PVC well casing: 0' to 35' below grade

No. 00 morie sand: 2' to 31' below grade

Depth (feet)	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1–5	45	Top 6": Brown SILT, Sand, fine Gravel, Roots, Glass, Plastic (FILL). Bottom 39": Brown SAND, some Silt, trace fine Gravel, Roots, Brick (FILL).	ND ND	DRY DRY	ND ND	ND ND	SB-4(0-2)-20171128
6–10	18	Brown SAND, some Silt, trace fine Gravel, Roots, Brick, Glass, Plastic (FILL).	ND	DRY	ND	ND	
11–15	36	Top 10": Brown SAND, some Silt, trace fine Gravel, Roots, Brick, Glass, Plastic (FILL). Bottom 26": Brown SAND, trace Silt, fine Gravel.	ND ND	DRY DRY	ND ND	ND ND	SB-4(10-12)-20171128
16–20	41	Brown SAND, little Silt, fine Gravel.	ND	DRY	ND	ND	

Notes: ▼ **Groundwater Depth Indicator**

Groundwater measured at 36.25 feet below grade in MW-4 on November 30, 2017.

Groundwater monitoring well installed to 50 feet below grade.

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, TAL Metals

Groundwater encountered at approximately 38 feet below grade during soil boring installation.

End of soil boring at 50 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.
Wells were constructed with Geoprobe® Prepacked Well Screens.

SOIL BORING AND WELL INSTALLATION LOG	7 Saratoga Avenue Brooklyn, NY 11233 AKRF Project Number: 20568.03	Groundwater Monitoring Well ID: Sheet 2 of 3	MW-4	Soil Boring ID:	SB-4

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged by:	ML, AKRF

Drilling

Start Time: Soil Boring: 1130 Well: 1100 **Finish Time:** Soil Boring: 1330 Well: 1415

Date: Soil Boring: 11/28/17 Well: 11/30/17

Surface Condition: Soil/Grass

Depth (feet)	Well Construction	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
21	No. 00 morie sandpack filter: 2' to 31' below grade		Top 8": SLOUGH.	ND	DRY	ND	ND	
22		48	Bottom 40": Brown SAND, little Silt, trace fine Gravel.	ND	DRY	ND	ND	
23								
24								
25								
26		55	Top 23": SLOUGH.	ND	DRY	ND	ND	
27			Bottom 40": Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
28								
29								
30								
31		49	Top 6": SLOUGH.	ND	DRY	ND	ND	
32	Bentonite seal: 31' to 33' below grade		Bottom 43": Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
33	No. 2 morie sand: 33' to 50' below grade							
34								
35								
36	0.020-inch slotted PVC well screen: 35' to 50' below grade		Top 10": SLOUGH.	ND	MOIST	ND	ND	
37		55	Next 38": Brown SAND, trace Silt, fine Gravel.	ND	MOIST	ND	ND	
38								
39			Bottom 17": Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	
40								

Notes: Groundwater Depth Indicator

Groundwater measured at 36.25 feet below grade in MW-4 on November 30, 2017.

Groundwater monitoring well installed to 50 feet below grade.

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, TAL Metals

Groundwater encountered at approximately 38 feet below grade during soil boring installation.

End of soil boring at 50 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.
Wells were constructed with Geoprobe® Prepacked Well Screens.

SOIL BORING AND WELL INSTALLATION LOG	7 Saratoga Avenue Brooklyn, NY 11233 AKRF Project Number: 20568.03	Groundwater Monitoring Well ID: Sheet 3 of 3	MW-4	Soil Boring ID:	SB-4

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged by:	ML, AKRF

Drilling

Start Time: Soil Boring: 1130 Well: 1100 **Finish Time:** Soil Boring: 1330 Well: 1415

Date: Soil Boring: 11/28/17 Well: 11/30/17

Depth (feet)	Well Construction	Surface Condition: Soil/Grass	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
41		0.020-inch slotted PVC well screen: 35' to 50' below grade		Top 8": SLOUGH.	ND	WET	ND	ND	
42			55	Bottom 47": Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	
43									
44									
45		No. 2 morie sand: 31' to 50' below grade							
46									
47			55	Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	
48									
49									
50		End cap: 50' below grade							

Notes: Groundwater Depth Indicator

Groundwater measured at 36.25 feet below grade in MW-4 on November 30, 2017.

Groundwater monitoring well installed to 50 feet below grade.

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, TAL Metals

Groundwater encountered at approximately 38 feet below grade during soil boring installation.

End of soil boring at 50 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Wells were constructed with Geoprobe® Prepacked Well Screens.

SOIL BORING AND WELL INSTALLATION LOG	7 Saratoga Avenue Brooklyn, NY 11233 AKRF Project Number: 20568.03	Groundwater Monitoring Well ID: Sheet 1 of 3	MW-11	Soil Boring ID:	SB-11

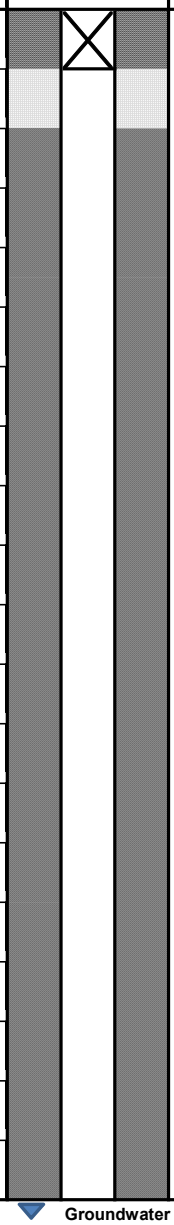
AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged by:	ML, AKRF

Drilling

Start Time: Soil Boring: 0825 Well: 1115 **Finish Time:** Soil Boring: 0945 Well:1315

Date: Soil Boring: 11/29/17 Well: 12/1/17

Depth (feet)	Well Construction	Surface Condition: Soil/Grass	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1		**Flush-mounted well cover, locking j-plug, and Concrete seal: grade to 1' below grade.**	32	Top 3": Brown SILT, some Sand, trace fine Gravel (FILL).	ND	DRY	ND	ND	
2		**Non-shrinking cement grout: 1' to 2' below grade.**		Bottom 29": Brown SAND, Silt, some Brick, trace Wood, Concrete, fine Gravel (FILL).	ND	DRY	ND	ND	SB-11(0-2)-20171129
3									
4		**2" diameter PVC well casing: 0' to 35' below grade**	18	Top 12": Brown SAND and SILT, some Brick, Concrete Wood, trace fine Gravel (FILL).	ND	DRY	ND	ND	
5									
6									
7		**No. 00 morie sand: 2' to 31' below grade**							SB-11(6-8)-20171129
8				Bottom 6": Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
9									
10			30	Top 2": SLOUGH.	ND	DRY	ND	ND	
11									
12				Bottom 28": Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
13									
14									
15			48	Top 18": SLOUGH.	ND	DRY	ND	ND	
16									
17				Bottom 30": Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
18									
19									
20									

Notes: ▼ Groundwater Depth Indicator

Groundwater measured at 35.82 feet below grade in MW-11 on November 30, 2017.

Groundwater monitoring well installed to 50 feet below grade.

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, TAL Metals

Groundwater encountered at approximately 37.5 feet below grade during soil boring installation.

End of soil boring at 50 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.
Wells were constructed with Geoprobe® Prepacked Well Screens.

SOIL BORING AND WELL INSTALLATION LOG	7 Saratoga Avenue Brooklyn, NY 11233 AKRF Project Number: 20568.03	Groundwater Monitoring Well ID: Sheet 2 of 3	MW-11	Soil Boring ID:	SB-11

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged by:	ML, AKRF

Drilling

Start Time: Soil Boring: 0825 Well: 1115 **Finish Time:** Soil Boring: 0945 Well:1315

Date: Soil Boring: 11/29/17 Well: 12/1/17

Well Construction: No. 00 morie sand: 2' to 31' below grade; Bentonite seal: 31' to 33' below grade; No. 2 morie sand: 33' to 50' below grade; 0.020-inch slotted PVC well screen: 35' to 50' below grade

Surface Condition: Soil/Grass

Depth (feet)	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
21–25	48	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
26–30	42	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
31–34	50	Brown SAND, trace Silt, fine Gravel.	ND	DRY	ND	ND	
35–40	51	Top 20": Brown SAND, trace Silt, fine Gravel.	ND	MOIST	ND	ND	
		Bottom 31": Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	

Notes: Groundwater Depth Indicator

Groundwater measured at 35.82 feet below grade in MW-11 on November 30, 2017.

Groundwater monitoring well installed to 50 feet below grade.

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, TAL Metals

Groundwater encountered at approximately 37.5 feet below grade during soil boring installation.

End of soil boring at 50 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.
Wells were constructed with Geoprobe® Prepacked Well Screens.

SOIL BORING AND WELL INSTALLATION LOG	7 Saratoga Avenue Brooklyn, NY 11233 AKRF Project Number: 20568.03	Groundwater Monitoring Well ID: Sheet 3 of 3	MW-11	Soil Boring ID:	SB-11

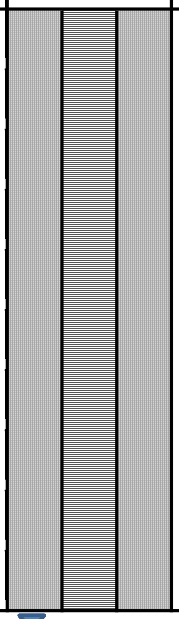
AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Drilling Method:	Geoprobe DPP
Sampling Method:	5' Macrocore
Driller:	Cascade
Weather:	45°F
Logged by:	ML, AKRF

Drilling

Start Time: Soil Boring: 0825 Well: 1115 **Finish Time:** Soil Boring: 0945 Well:1315

Date: Soil Boring: 11/29/17 Well: 12/1/17

Depth (feet)	Well Construction	Surface Condition: Soil/Grass	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
41 42 43 44 45 46 47 48 49 50		0.020-inch slotted PVC well screen: 35' to 50' below grade No. 2 morie sand: 31' to 50' below grade End cap: 50' below grade	50	Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	
			54	Brown SAND, trace Silt, fine Gravel.	ND	WET	ND	ND	

Notes: Groundwater Depth Indicator

Groundwater measured at 35.82 feet below grade in MW-11 on November 30, 2017.

Groundwater monitoring well installed to 50 feet below grade.

Notes: Soil samples analyzed for VOCs, SVOCs, Pesticides, PCBs, TAL Metals

Groundwater encountered at approximately 37.5 feet below grade during soil boring installation.

End of soil boring at 50 feet below grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected

Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.

Wells were constructed with Geoprobe® Prepacked Well Screens.

Groundwater Monitoring Well Development Log

AKRF Project No:	20568.03	**Installed By:**	Cascade
Project Location:	7 Saratoga Avenue/1510-1524 Broadway, Brooklyn	**Developed By:**	M. Levy, AKRF
Client:	OER	**Logged By:**	M. Levy, AKRF
Date:	11/30/2017	**Weather:**	50°F

Development Setup

Start Time:	10:50		**Stop Time:**	12:10	
Headspace PID:	ND	parts per million (ppm)	**Well Diameter:**	2	inches
Total Depth:	50.00	feet below top of casing	**1 Well Volume*:**	2.2	gallons
Depth to Water:	36.50	feet below top of casing	**Volume Purged:**	63.4	gallons
Water Column:	13.50	feet below top of casing	**Pump Type:**	Waterra Hydrolift II Pump	

Groundwater Monitoring Well Information

Groundwater Monitoring Well ID:	MW-1	**Groundwater Monitoring Well Installation Date:**	11/30/2017

Groundwater Monitoring Well Development Parameters

Time	Pump Rate (mL/min)	Temperature (ºC)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
10:50	3,000	14.72	7.10	312	0.564	>1,000	7.32
11:00	3,000	14.96	7.06	302	0.677	378	7.50
11:10	3,000	15.00	6.86	314	0.712	238	6.74
11:20	3,000	15.19	7.02	350	0.759	208	7.14
11:30	3,000	15.27	7.15	335	0.779	144	5.53
11:40	3,000	15.47	7.05	311	0.787	113	6.00
11:50	3,000	15.45	7.11	285	0.796	86.5	5.43
12:00	3,000	15.47	7.17	265	0.797	64.3	4.05
12:10	3,000	15.57	7.22	272	0.797	47.8	4.01
12:20	3,000	15.57	7.22	275	0.796	40.2	3.98
12:30	3,000	15.57	7.24	269	0.799	33.6	3.9

Notes: PID = Photoionization Detector; ND = Not Detected; WC = Water Column; ORP = Oxidation Reduction Potential

Volume Calculations: *= 0.041 x WC for 1" wells; *= 0.163 x WC for 2" wells; *= 0.653 x WC for 4" wells; *= 1.469 x WC for 6" wells

Comments:

Purge until turbidity is less than 50 NTU for three successive readings or until water quality indicators are within 10% for three successive readings. Purge a minimum of three well volumes.

Groundwater Monitoring Well Development Log

AKRF Project No:	20568.03	**Installed By:**	Cascade
Project Location:	7 Saratoga Avenue/1510-1524 Broadway, Brooklyn	**Developed By:**	M. Levy, AKRF
Client:	OER	**Logged By:**	M. Levy, AKRF
Date:	11/30/2017	**Weather:**	50°F

Development Setup

Start Time:	14:10		**Stop Time:**	15:50	
Headspace PID:	ND	parts per million (ppm)	**Well Diameter:**	2	inches
Total Depth:	50.00	feet below top of casing	**1 Well Volume*:**	2.2	gallons
Depth to Water:	36.25	feet below top of casing	**Volume Purged:**	80	gallons
Water Column:	13.75	feet below top of casing	**Pump Type:**	Waterra Hydrolift II Pump	

Groundwater Monitoring Well Information

Groundwater Monitoring Well ID:	MW-4	**Groundwater Monitoring Well Installation Date:**	11/30/2017

Groundwater Monitoring Well Development Parameters

Time	Pump Rate (mL/min)	Temperature (ºC)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
14:10	3,000	14.70	7.01	297	0.899	>1,000	7.87
14:20	3,000	14.74	7.05	300	0.917	>1,000	7.71
14:30	3,000	15.29	7.08	324	0.962	492	5.63
14:40	3,000	15.20	7.11	324	0.957	285	5.4
14:50	3,000	15.03	7.07	336	0.960	165	5.38
15:00	3,000	15.12	7.06	320	0.961	148	5.37
15:10	3,000	15.13	7.11	335	0.967	123	5.81
15:20	3,000	15.09	7.09	341	0.968	109	6.20
15:30	3,000	15.10	7.08	336	0.961	97.8	5.40
15:40	3,000	15.21	7.08	347	0.972	86.3	4.47
15:50	3,000	15.19	7.08	339	0.991	45.1	5.41
16:00	3,000	15.20	7.08	343	0.993	36.4	5.41
16:10	3,000	15.19	7.08	341	1.02	29.2	5.41

Notes: PID = Photoionization Detector; ND = Not Detected; WC = Water Column; ORP = Oxidation Reduction Potential

Volume Calculations: = 0.041 x WC for 1" wells; *= 0.163 x WC for 2" wells; *= 0.653 x WC for 4" wells; *= 1.469 x WC for 6" well

Comments:

Purge until turbidity is less than 50 NTU for three successive readings or until water quality indicators are within 10% for three successive readings. Purge a minimum of three well volumes.

Groundwater Monitoring Well Development Log

AKRF Project No:	20568.03	**Installed By:**	Cascade
Project Location:	7 Saratoga Avenue/1510-1524 Broadway, Brooklyn	**Developed By:**	M. Levy, AKRF
Client:	OER	**Logged By:**	M. Levy, AKRF
Date:	12/1/2017	**Weather:**	50°F

Development Setup

Start Time:	13:20		**Stop Time:**	14:30	
Headspace PID:	ND	parts per million (ppm)	**Well Diameter:**	2	inches
Total Depth:	50.00	feet below top of casing	**1 Well Volume*:**	2.3	gallons
Depth to Water:	35.82	feet below top of casing	**Volume Purged:**	55	gallons
Water Column:	14.18	feet below top of casing	**Pump Type:**	Waterra Hydrolift II Pump	

Groundwater Monitoring Well Information

Groundwater Monitoring Well ID:	MW-11	**Groundwater Monitoring Well Installation Date:**	12/1/2017

Groundwater Monitoring Well Development Parameters

Time	Pump Rate (mL/min)	Temperature (ºC)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
13:20	3,000	14.29	7.30	270	0.517	>1,000	8.10
13:30	3,000	14.40	7.07	276	0.527	>1,000	5.74
13:40	3,000	14.50	7.06	289	0.567	863	6.12
13:50	3,000	14.51	7.05	280	0.590	242	5.42
14:00	3,000	14.57	7.04	279	0.591	109	5.61
14:10	3,000	14.53	7.05	281	0.589	91.7	5.60
14:20	3,000	14.60	7.05	290	0.583	58.9	5.71
14:30	3,000	14.61	7.05	290	0.599	47.6	5.03
14:40	3,000	14.61	7.05	290	0.599	34.9	4.99
14:50	3,000	14.61	7.05	290	0.602	30.1	4.80

Notes: PID = Photoionization Detector ND = Not Detected WC = Water Column ORP = Oxidation Reduction Potentia

Volume Calculations: = 0.041 x WC for 1" wells *= 0.163 x WC for 2" wells *= 0.653 x WC for 4" wells *= 1.469 x WC for 6" wel

Comments:

Purge until turbidity is less than 50 NTU for three successive readings or until water quality indicators are within 10% for three successive readings. Purge a minimum of three well volumes.

Well Sampling Log

Job No:	20568.03	**Client:**	OER	**Well No:**	
Project Location:	7 Saratoga Avenue, Brooklyn, NY	**Sampled By:**	M. Levy, AKRF		
Date:	12/11/2017	**Sampling Time:**	10:30	**MW-1**	
LEL at surface:	ND				
PID at surface:	1.3 ppm				
Total Depth:	50.00 ft. below top of casing	**Water Column (WC):**	13.87 feet	*= 0.163 * WC for 2" wells	
Depth to Water:	36.13 ft. below top of casing	**Well Volume*:**	2.26 gallons	*= 0.653 * WC for 4" wells	
Depth to Product:	ND ft. below top of casing	**Volume Purged:**	5 gallons	*= 1.469 * WC for 6" wells	
Depth to top of screen:	35.00 ft. below top of casing	**Well Diam.:**	2 inches		
Depth to bottom of screen:	50.00 ft. below top of casing	**Purging Device (pump type):**			
Approx. Pump Intake:	43.00 ft. below top of casing	QED Bladder Pump			

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
945	36.13	235	15.5	0.719	6.20	5.99	228.3	198.7	Matrix spike/matrix spike duplicate (MS/MSD) collected from MW-1. No sheen or odor detected on purge water.
950	36.13	235	15.5	0.715	6.04	6.05	228.4	114.3	
955	36.13	235	15.5	0.710	6.06	6.10	230.4	200.8	
1000	36.13	235	15.5	0.708	6.06	6.15	231.7	236.2	
1005	36.13	235	15.6	0.711	6.20	6.15	231.1	200.9	
1010	36.13	235	15.6	0.713	6.25	6.17	231.1	185.6	
1015	36.13	235	15.6	0.716	6.63	6.18	232.3	18.3	
1020	36.13	235	15.6	0.717	6.64	6.18	232.9	6.6	
1025	36.13	235	15.6	0.715	6.53	6.18	232.4	9.8	
SAMPLING									
1105	36.13	235	15.6	0.718	6.07	6.18	232.5	23	
Stabilization Criteria:				**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for:VOCs, SVOCs, PCBs, pesticides, and TAL metals (total and dissolved).

Well Sampling Log

Job No:	20568.03	**Client:**	OER	**Well No:**	
Project Location:	7 Saratoga Avenue, Brooklyn, NY	**Sampled By:**	M. Levy, AKRF		
Date:	12/11/2017	**Sampling Time:**	12:30	**MW-4**	
LEL at surface:	ND				
PID at surface:	2.8 ppm				
Total Depth:	50.00 ft. below top of casing	**Water Column (WC):**	13.70 feet	*= 0.163 * WC for 2" wells	
Depth to Water:	36.30 ft. below top of casing	**Well Volume*:**	2.23 gallons	*= 0.653 * WC for 4" wells	
Depth to Product:	ND ft. below top of casing	**Volume Purged:**	3.4 gallons	*= 1.469 * WC for 6" wells	
Depth to top of screen:	35.00 ft. below top of casing	**Well Diam.:**	2 inches		
Depth to bottom of screen:	50.00 ft. below top of casing	**Purging Device (pump type):**			
Approx. Pump Intake:	43.50 ft. below top of casing	QED Bladder Pump			

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1155	36.30	200	15.1	0.769	7.76	6.17	243.6	70.1	Blind duplicate sample collected from MW-4. No sheen or odor detected on purge water.
1200	36.30	200	15.2	0.766	7.49	6.26	241.6	81.5	
1205	36.30	200	15.2	0.775	7.48	6.29	235.2	73.2	
1210	36.30	200	15.3	0.778	7.35	6.28	243.5	72.9	
1215	36.30	200	15.3	0.807	7.34	6.25	246.7	48.9	
1220	36.30	200	15.3	0.812	7.34	6.25	248.5	33.7	
1225	36.30	200	15.3	0.811	7.34	6.25	249.7	30.1	
SAMPLING									
1300	36.30	200	15.3	0.818	7.40	6.25	249.9	38.9	
Stabilization Criteria:				**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for:VOCs, SVOCs, PCBs, pesticides, and TAL metals (total and dissolved).

Well Sampling Log

Job No:	20568.03	**Client:**	OER	**Well No:**	**MW-11**
Project Location:	7 Saratoga Avenue, Brooklyn, NY	**Sampled By:**	M. Levy, AKRF		
Date:	12/11/2017	**Sampling Time:**	15:05		
LEL at surface:	ND				
PID at surface:	4.3 ppm				
Total Depth:	50.00 ft. below top of casing	**Water Column (WC):**	14.19 feet	*= 0.163 * WC for 2" wells	
Depth to Water:	35.81 ft. below top of casing	**Well Volume*:**	2.31 gallons	*= 0.653 * WC for 4" wells	
Depth to Product:	ND ft. below top of casing	**Volume Purged:**	4 gallons	*= 1.469 * WC for 6" wells	
Depth to top of screen:	35.00 ft. below top of casing	**Well Diam.:**	2 inches		
Depth to bottom of screen:	50.00 ft. below top of casing	**Purging Device (pump type):**			
Approx. Pump Intake:	44.00 ft. below top of casing	QED Bladder Pump			

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1425	35.81	178	14.4	0.769	8.63	6.37	238.3	600.8	No sheen or odor detected on purge water
1430	35.81	178	14.7	0.786	8.47	6.37	241.8	469.7	
1435	35.81	178	14.8	0.781	8.19	6.37	253.2	382.5	
1440	35.81	178	15.1	0.785	8.05	6.37	266.6	130.8	
1445	35.81	178	15.2	0.777	8.07	6.38	267.4	125.5	
1450	35.81	178	15.1	0.780	7.99	6.37	271.5	49.9	
1455	35.81	178	15.1	0.784	7.86	6.35	274.6	49.4	
1500	35.81	178	15.1	0.783	7.86	6.35	275.9	48.5	
SAMPLING									
1550	35.81	178	15.1	0.781	7.92	6.38	281.8	49.7	
Stabilization Criteria:				**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for:VOCs, SVOCs, PCBs, pesticides, and TAL metals (total and dissolved).

APPENDIX C

INVESTIGATION DERIVED WASTE DISPOSAL MANIFEST

B 470

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. . . . . | Manifest Doc. No. 68078 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
NYC. Department of Housing Preservation and Development 100 Gold St New York 10038

4. Generator's Phone ( )

7 Saratoga Ave Brooklyn NY

5. Transporter 1 Company Name: **AARCO ENVIRONMENTAL SERVICES CORP.**

6. US EPA ID Number: **N.Y.R.0.0.0.1.0.7.3.2.6**

A. Transporter's Phone: **631-586-5900**

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
DALE TRANSFER CORP.
129 DALE STREET
WEST BABYLON, NY 11704

10. US EPA ID Number: **N/A**

C. Facility's Phone: **631-393-2882**

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. **NON-HAZARDOUS WASTE SOLID** Non Haz Soil	006	DM	01.200	P
b. **NON-HAZARDOUS WASTE LIQUID** Non Haz groundwater	004	DM	00.720	G
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Profile # 2018-038 (Soil)
Profile # 2018-037 (Liquid)

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900

WO# 715-235944.

TRANSPORTER

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Matthew Levy of AARCO for NYC Department of Housing Preservation & Development | Signature | Month 02 | Day 05 | Year 18

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name: Marcelo Castillo | Signature | Month 02 | Day 05 | Year 18

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month . | Day . | Year .

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Month . | Day . | Year .

GENERATOR'S COPY