126 Bruckner Boulevard

BRONX, NEW YORK

Subsurface (Phase II) Investigation Report

AKRF Project Number: 190282

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1.0 INTRODUCTION

AKRF, Inc. (AKRF) conducted a limited Subsurface (Phase II) Investigation at 126 Bruckner Boulevard in the Mott Haven neighborhood of the Bronx, New York (the Site), also identified on the New York City Tax Map as Tax Block 2260, Lot 4. The approximately 13,770-square foot Site is located on the south side of Bruckner Boulevard between Brook Avenue and St. Ann's Avenue, and is occupied by an active gasoline filling station operated by Speedway LLC (Speedway). The Site is bound to the north by Bruckner Boulevard, followed by a commercial shipping facility and a sheet metal facility; to the east by a bakery; to the south by an iron works and an auto repair facility; and to the west by an Amazon Flex parking lot. A Site Location map is provided as Figure 1.

The scope of the Subsurface (Phase II) Investigation was based on a review of previous environmental investigations conducted at the Site (as described in Section 3.0), the proposed redevelopment and Speedway drilling-access protocol limitations required for investigations at active services station sites. The Site investigation included the following:

- a geophysical investigation to scan the subsurface for potential tanks, utilities or other potential obstructions near proposed boring locations;
- the advancement of 12 soil borings with the collection and laboratory analysis of 15 soil samples;
- the installation of two temporary one-inch groundwater monitoring wells with the collection and laboratory analysis of two groundwater samples;
- installation of four temporary soil vapor points with the collection and laboratory analysis of four soil vapor samples; and
- collection of one outdoor ambient air sample.

A Site Plan illustrating the sample locations is provided as Figure 2.

2.0 PHYSICAL SETTING AND PROPOSED DEVELOPMENT

The Site consists of an approximately 13,770-square foot tax lot occupied by an active gasoline filling station operated by Speedway. The Site is located on the south side of Bruckner Boulevard between Brook Avenue and St. Ann's Avenue. The surrounding area is densely developed with commercial, industrial, and a few residential uses.

Based on the United States Geological Survey (USGS), Central Park, NY Quadrangle (2013), the Site is between 10 and 20 feet above mean sea level, with immediate surrounding area topography sloping down in a southerly to southwesterly direction toward the Bronx Kill (approximately 650 feet away), a tidal strait connecting the Harlem and East Rivers. Groundwater was encountered at approximately 7 to 7.5 feet below ground surface (bgs) at the Site during this investigation, and based on information obtained from USGS and previous investigations conducted at the Site is expected to flow in a northeasterly direction. The actual groundwater flow direction can be affected by factors including bedrock geology, or subsurface openings or obstructions. Groundwater in the Bronx is not used as a source of potable water.

It is our understanding that preliminary redevelopment plans include the demolition of the existing gasoline station, removal of the tanks and pumps, and construction of a new multi-story residential structure with commercial storefronts on the ground level. Based on groundwater depth and the proposed excavation for a one-story cellar, site-wide dewatering would be necessary to construct the building foundation.

3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Underground Storage Tank Closure Report – Merit Bruckner, 126 Bruckner Boulevard, Bronx, New York, Groundwater & Environmental Services, Inc., April 1993

Groundwater & Environmental Services, Inc. (GES) oversaw the removal of one 550-gallon underground storage tank (UST) and one 2,000-gallon UST from the Site in July 1992. The tanks were replaced with a new 550-gallon UST. During the tank removal activities, groundwater was encountered at approximately 8.5 feet bgs and a sheen was visible on the water surface. GES notified NYSDEC and Spill No. 9205095 was assigned to the Site. A total of 46 tons of petroleum-impacted soil was removed from the Site.

Upon completion of the tank removal, GES collected a total of four post-excavation endpoint samples from the sidewalls of the excavation, above the water table. The samples were analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX). TPH concentrations were detected up to 1,654 parts per million (ppm) and total BTEX was detected up to 20.4 ppm.

Underground Storage Tank Closure Report – Merit Oil of New York, Inc., Merit Bruckner Gasoline Station, 126-128 Bruckner Boulevard, Bronx, New York, Leggette, Brashears, & Graham, Inc., July 1995

Leggette, Brashears, & Graham, Inc. (LBG) was retained to oversee the removal of four 4,000-gallon gasoline USTs, two 2,000-gallon gasoline USTs, 36 previously abandoned 550-gallon gasoline USTs, and one 550-gallon waste-water UST at the Site.

During removal of the 4,000-gallon and 2,000-gallon USTs, the tank contents were pumped out and the tanks were subsequently cleaned. Soil within the tank grave was reported to have a gasoline-like odor; however, no free product was detected. All excavated soil was stockpiled on and covered with plastic sheeting for off-site disposal. A total of 20 soil samples were collected for laboratory analysis from the base of the excavation area.

LBG also oversaw the removal of product dispenser islands and associated piping connected to the 4,000-gallon and 2,000-gallon USTs. One post-excavation sample was collected for laboratory analysis from beneath each dispenser island for a total of four samples.

The thirty-six 550-gallon USTs were observed to be previously filled with water. The water was pumped out from each tank and disposed of off-site. A total of 35 post-excavation samples were collected at the base of the excavation beneath the thirty-six USTs. A gasoline-like odor was noted in the surrounding soil at various locations; however, no free product was reported.

Laboratory analytical results of the post-excavation samples indicated elevated concentrations of methyl tert-butyl ether (MTBE) (up to 260 ppm) and BTEX (up to 832 ppm). The highest concentrations were detected in samples collected beneath the 550-gallon USTs, previously located in the central portion of the Site.

Additional Subsurface Investigation – Merit "Bruckner" Gasoline Station, 126-128 Bruckner Boulevard, Bronx, New York, Leggette, Brashears, & Graham, Inc., January 1998

LBG conducted two investigations at the Site in May 1996 and June 1997. The investigations included the installation of 14 soil borings and three monitor/vapor extraction wells. Groundwater beneath the Site was encountered at approximately 7 to 11 feet bgs and flowing in a northeasterly direction.

Based on the soil analytical results, petroleum-related compounds including BTEX was detected in the soil samples at concentrations up to 217.71 ppm. Groundwater analytical results indicated that BTEX was detected at concentrations up to 8,801 micrograms per liter (µg/L). MTBE was detected in groundwater

samples at concentrations up to 15,300 µg/L. No free-phase product was detected in any of the monitoring wells.

LBG recommended that a Remedial Investigation Work Plan (RIWP) be prepared for the Site and that quarterly groundwater monitoring be conducted.

Subsurface Investigation – Merit Bruckner Gasoline Station, 126-128 Bruckner Boulevard, Bronx, New York, Leggette, Brashears, & Graham, Inc., January 2000

In June 1998, seven soil borings were advanced across the Site. Free-phase product was detected in two monitor/vapor extraction wells and all seven borings. LBG recommended that a sample of the free product be collected and submitted to a laboratory for fingerprint analysis.

Monitoring Well Installation Report – Hess Station #32506, 126 Bruckner Boulevard, Bronx, New York, Geologic Services Corporation, August 2002

Geologic Services Corporation (GSC) oversaw the installation of two permanent groundwater monitoring wells as part of an ongoing subsurface investigation at the Site. During well installation, groundwater was encountered at approximately 9 to 10 feet bgs. Soil samples collected from above the water table, indicated elevated levels of volatile organic compounds (VOCs), including BTEX, naphthalene, n-butylbenzene, and 1,2,4-trimethylbenzene. Groundwater samples were not reported.

Remedial Action Plan – Hess Station #32506, 126-128 Bruckner Boulevard, Bronx, New York, EnviroTrac, Ltd., August 2010

EnviroTrac Ltd. (EnviroTrac) prepared a Remedial Action Plan (RAP) for the Site to address Spill No. 9405017. The RAP included pilot testing for a soil vapor extractor (SVE) system. Based on the previous site characterization sampling, groundwater sampling, and the SVE pilot testing, EnviroTrac determined that adsorbed and dissolved hydrocarbon impacts were present at the Site. EnviroTrac recommended that remedial measures, such as an SVE system and air sparging be conducted to remediate the Site, and that quarterly groundwater and air effluent monitoring would be conducted.

UST Closure Report – Hess Station #32506, 126-128 Bruckner Boulevard, Bronx, New York, EnviroTrac, Ltd., February 2011

EnviroTrac documented the removal of one 550-gallon waste water UST. The tank contents were pumped and the tank was cleaned prior to being disposed of off-site. Soil beneath the tanks was excavated down to approximately 8 to 12 feet bgs, and post-excavation samples were collected from three of the sidewalls and from the base of the excavation. The samples were analyzed for VOCs and semi-volatile organic compounds (SVOCs). The laboratory analytical results indicated that only minor levels of the VOCs isopropylbenzene and n-propylbenzene were detected in one sample. Low levels of select SVOCs were detected in three of the four samples. EnviroTrac indicated that Site conditions would continue to be monitored under Spill No. 9405017 and a SVE/air sparge system was scheduled to be operational by spring 2011.

Quarterly Groundwater Monitoring Reports – Speedway #7811/Hess Station #32506, 126-128 Bruckner Boulevard, Bronx, NY, EnviroTrac, Ltd. and Spill Closure

EnviroTrac issued several reports documenting quarterly groundwater sampling events between 2009 and 2014. During each event, groundwater samples were collected from 13 on-site monitoring wells and analyzed for BTEX and MTBE.

EnviroTrac submitted a separate spill closure request letter to NYSDEC, dated March 2015. EnviroTrac indicated that concentrations of BTEX decreased by approximately 99.82% and concentrations of MTBE

decreased by approximately 99.85%. Remediation efforts that were performed at the Site including source soil excavation, injection of oxygen release compound (ORC), and installation of an SVE/air sparge system.

In a letter dated March 2016, NYSDEC closed Spill No. 9405017 based on the data reported to date. NYSDEC indicated that all monitoring wells should be properly decommissioned. If any subsurface contamination is encountered during future redevelopment of the Site, it must be properly remediated and vapor mitigations efforts must be taken to prevent vapor intrusion concerns.

Phase I Environmental Site Assessment (ESA) – 126 Bruckner Boulevard, Bronx, New York, AKRF, August 2019

AKRF conducted a Phase I ESA of the Site in August 2019. The Phase I ESA identified the following:

- The Site includes an active filling station and is listed in multiple regulatory databases: RCRIS, NY SPILLS, manifest, UST, FINDS, E-Designation, and LTANKS databases.
- The Site is listed in the NYSDEC database with three closed status petroleum spills (Spill No. 8606553, 9205097, and 9405017). The spill cases documented evidence of soil and groundwater impacts to the Site which required long-term remediation and monitoring, including tank removal, soil excavation, installation of a soil vapor extraction/air sparge system, and groundwater monitoring. The spills achieved regulatory closure; however, residual contamination likely remains at the Site. Additionally, NYSDEC indicated that any future redevelopment at the Site would require vapor mitigation to mitigate vapor intrusion concerns. During the Site reconnaissance, an iron works and automotive shop abutted the Site to the South and several automotive repair shops and a gasoline station were observed approximately 250 feet northwest of the Site.
- The Site is listed in the NYSDEC Petroleum Bulk Storage (PBS) database under Facility ID 2-297658 with two closed-removed 550-gallon USTs (product not specified), one closed-removed 600-gallon UST (product not specified), 36 closed in-place 550-gallon gasoline USTs, two closed-removed 2,000-gallon gasoline USTs, one closed-removed 2,000-gallon No. 2 fuel oil UST, four closed-removed 4,000-gallon gasoline USTs, and five in-service 4,000-gallon gasoline/ethanol USTs. The two 2,000-gallon and four 4,000-gallon gasoline USTs were reportedly removed in 1994, and a 550-gallon waste water tank was reportedly removed in 2010. Based on a review of previous reports provided to ARKF, the 36 closed in-place 550-gallon gasoline USTs were removed from the Site between 1994 and 1995 under the oversight of LBG.
- Historical Sanborn maps and the regulatory database information identified the Site uses to have included a machine shop, manufacturing, welding, and filling station.
- Historical Sanborn maps and the regulatory database information identified numerous industrial and automotive uses in the surrounding area. Such uses with the potential to affect subsurface conditions beneath the Property included a locomotive repair shop, garages with gasoline tanks, auto repair shops, gasoline stations, machine shops, sheet metal works, iron works, Gassman Coal and Oil Co., and Fireproof Products Co. Inc.
- The Site was mapped with a hazardous material E-Designation (E-143) in the 2005 Port Morris/ Bruckner Boulevard Rezoning, which requires that redevelopment of the Site include investigation, and, if applicable remediation, under the oversight of the NYC Office of Environmental Remediation (OER).
- The origin of fill material at the Site is unknown. Based on the age of the current and historical Site structures, suspect asbestos-containing materials (ACM) lead-based paint (LBP) may be present within subsurface fill material. Fluorescent lighting fixtures, electrical equipment, and caulking

may contain polychlorinated biphenyls (PCBs). No evidence of leaks or stains from such equipment was observed.

AKRF recommended a Subsurface (Phase II) Investigation be conducted to characterize subsurface conditions of soil, groundwater, and soil vapor throughout the Site prior to redevelopment. Previous environmental reports detailed in this section are included as attachments in the August 2019 Phase I ESA prepared by AKRF.

4.0 FIELD ACTIVITIES

The field activities were conducted between October 1 and 4, 2019 by AKRF personnel and Eastern Environmental Solutions, Inc. (Eastern) of Manorville, New York under supervision of EnviroTrac, Speedway's environmental consultant. The scope of work conducted by AKRF included the following.

- A geophysical investigation to scan the subsurface for potential tanks, utilities or other potential obstructions near proposed boring locations;
- advancement of 12 soil borings with the collection and laboratory analysis of 15 soil samples;
- installation of two temporary one-inch diameter PVC groundwater monitoring wells at two of the boring locations with the collection and laboratory analysis of two groundwater samples;
- installation of four temporary soil vapor points with the collection and laboratory analysis of four soil vapor samples; and,
- collection of one outdoor ambient air sample for comparison and quality assurance/quality control (QA/QC) purposes.

Sampling locations are depicted on Figure 2. A photographic log depicting the field activities is included as Appendix A.

4.1 Geophysical Investigation

On September 5, 2019, a geophysical survey was conducted by Enviroprobe Service, Inc. across accessible outdoor areas of the Site, to the extent feasible, to clear the proposed soil boring locations for subsurface utilities and/or structures, and to search for potential buried storage tanks. The geophysical survey included electromagnetic (EM), radio-detection (RD), and ground penetrating radar (GPR) methods. During the geophysical survey, linear anomalies consistent with subsurface utilities (including communications, electric, storm water, fuel piping, sanitary, and unknown utilities) were marked out with spray paint prior to drilling and boring locations were adjusted accordingly. The Geophysical Investigation Report is attached as Appendix B. Utility mark outs were also requested from the New York City/Long Island One Call Center prior to the commencement of drilling.

4.2 Soil Sampling and Analysis

Soil boring locations (SB-01 through SB-12) were selected to evaluate the conditions of shallow fill materials across the Site and deeper fill materials at the soil-groundwater interface. An area defined within the Speedway Environmental – Pre-Clearing and Drilling Standard (provided as Appendix C) as the "UST System Zone", which includes the UST field, dispenser area, and station building, plus a 10 foot buffer, was not accessible for subsurface sampling. In addition, a 5 foot buffer was required from all marked utilities. The soil boring locations are depicted on Figure 2.

Prior to drilling activities, each proposed soil boring location (SB-01 through SB-12) was required to be pre-cleared to a minimum depth of 6 feet bgs in accordance with Speedway's Environmental – Pre-Clearing and Drilling Standard. To achieve the required pre-clearing depth, a combination of Speedway-approved soft-dig techniques (i.e., hand auger and air knife with vacuum truck) were used; however, due to equipment refusal constraints, only two locations (SB-01 and SB-03) were pre-cleared to the 6 feet bgs and approved for drilling by EnviroTrac.

Soil borings SB-02 and SB-04 through SB-12 were advanced using soft-dig techniques (i.e., hand auger and air knife with vacuum truck) to depths ranging from 1.5 to 4 feet bgs. SB-01 and SB-03

were successfully pre-cleared to 6 feet bgs using soft dig techniques and advanced further using the Geoprobe® DPP unit to approximately 16 and 25 feet bgs, respectively. Samples collected from within the pre-cleared interval were sampled using a hand auger. Samples collected beneath the pre-cleared interval were collected from the Geoprobe® DPP unit using five-foot long, two-inch diameter, stainless steel macrocore piston rod samplers fitted with an internal acetate liner. Soil was field-screened using a photoionization detector (PID) which measures relative concentrations of VOCs.

A shallow soil sample (collected from intervals ranging from 0 to 4 feet bgs) was collected at each soil boring location (SB-01 through SB-12). Soil samples were also collected at the soil-groundwater interface at SB-01 and SB-03. An additional sample was also collected beneath the soil-groundwater interface at SB-03 at an interval exhibiting petroleum-like odors and elevated PID readings. At each boring location, AKRF field personnel recorded and documented subsurface conditions. Soil boring logs are provided as Appendix D.

A total of 15 soil samples were slated for laboratory analysis and placed in laboratory-supplied containers in accordance with Environmental Protection Agency (EPA) protocols. The soil samples were analyzed by Test America Inc. (Test America), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory, in Edison, New Jersey, for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides by EPA Method 8081B, Resource Conservation and Recovery Act (RCRA) Metals by EPA Method 6020B, and Mercury by EPA Method 7471B.

Following completion of the soil sampling, the borings not slated for temporary well installation (detailed below in Section 4.3) were backfilled to approximately 6 inches bgs using drill cuttings absent of visual/olfactory evidence of contamination and/or clean sand provided by Eastern. Boring locations were patched at the surface using a minimum of 6 inches of dyed concrete patch. As directed by Speedway's environmental consultant, EnviroTrac, large debris and/or soil boring cuttings exhibiting signs of contamination (e.g., odors, elevated PID readings) were containerized in two 55-gallon steel drums. The generated investigation derived waste (IDW) was properly disposed of off-Site by Eastern in accordance with applicable federal, state, and local regulations and guidelines. Disposal manifests are provided as Appendix E.

4.3 Groundwater Sampling and Analysis

Two of the soil borings (SB-01 and SB-03) were converted into temporary one-inch groundwater monitoring wells (TW-01 and TW-03). Based on an observed groundwater table of approximately 7.5 feet bgs, a 10 foot interval of monitoring well screen was installed from approximately 6 to 16 feet bgs and backfilled with clean silica sand. The temporary groundwater monitoring well construction logs is provided in Appendix D.

Following installation, the temporary groundwater monitoring well was developed via over-pumping, or surging and pumping using dedicated polyethylene tubing and a peristaltic pump, until at least three well volumes were evacuated and the purge water was clear. The purge water exhibited visual/olfactory evidence of contamination (i.e., petroleum-like odors, oil sheen, and elevated PID readings) and was containerized in the two 55-gallon steel drums of IDW detailed in Section 4.2 for off-site disposal.

Groundwater samples were collected using a peristaltic pump and dedicated polyethylene tubing. Prior to collecting groundwater samples, the depth to groundwater and the total well depth were measured in each well using a multi-parameter interface probe attached to a measuring tape

accurate to 0.01 foot. The groundwater samples were analyzed for VOCs by EPA Method 8260 and SVOCs by EPA Method 8270.

Following completion of groundwater sampling, the temporary wells were removed and the borings were backfilled to approximately 6 inches bgs using drill cuttings absent of visual/olfactory evidence of contamination and/or clean sand provided by Eastern. Locations were patched at the surface using a minimum of 6 inches of dyed concrete patch.

4.4 Soil Vapor and Ambient Air Sampling and Analysis

Four temporary soil vapor points (SV-02 through SV-05) and one outdoor ambient air sample (AA-01) were collected at the locations shown on Figure 2. The soil vapor point installations were performed in accordance with the NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006, ASTM E 2600-08 Standard Practice for Assessment of Vapor Intrusion into Structures on Property Involved in Real Estate Transactions, and AKRF's Standard Operating Procedure for Soil Vapor Sampling (SOP# H-SI-10).

Temporary soil vapor points SV-02 through SV-05 were installed by advancing an expandable drive point via hand auger to approximately 5 feet bgs or 2.5 feet above the observed groundwater table (located approximately 7.5 feet bgs).. A 6-inch long, 0.5-inch diameter stainless steel soil vapor screen implant with connected Teflon tubing extending above grade was threaded into the drive point. The probe was then retracted approximately six inches to create a void. No. 2 Morie sand was used to fill the annular space around the vapor point and then hydrated bentonite was used to fill the void around the tubing to the top of the slab.

Prior to sampling, each probe was purged using a Gilian® GilAir™ Plus personal air pump. During purging, a helium shroud with brass fittings was placed over the probe and helium was introduced through one of the brass fittings to saturate the atmosphere around the sample port. The purged vapors were collected in a 1-liter Tedlar® bag and a Dielectric Technologies Model MGD-2002 portable helium detector was used to check for short-circuiting by ambient air, i.e. to verify the adequacy of the bentonite seal. Helium concentrations of less than the NYSDOH guideline of 10 percent were considered sufficient. Purged vapors were also field-screened for VOCs using a PID calibrated with 100 ppm isobutylene gas. After purging, the probes were connected via tubing to laboratory-supplied, batch-certified clean six-liter SUMMA® canisters equipped with 2-hour flow controllers. One outdoor ambient air sample was collected at approximately 4 feet above the ground to simulate the breathing zone. Vacuum readings (in inches of mercury) were collected at the start, middle, and end of sampling. Soil vapor and ambient air samples were collected for approximately 2 hours. Once sampling was completed, the canisters were closed and resealed for shipment to the laboratory.

The soil vapor and ambient air samples were transported via courier and shipped to Test America in Burlington, Vermont for analysis of VOCs by EPA Method TO-15 utilizing standard chain-of-custody procedures. Upon completion, the sub-slab soil vapor probes were removed, the holes backfilled, and the asphalt was restored using dyed concrete patch.

The soil vapor and ambient air sampling logs provided as Appendix D include vapor point construction details.

4.5 Field Observations

Soil

Historic fill materials (including sand, gravel, silt, concrete, brick, coal, asphalt, glass, ceramic, plastic, and wood) were observed from just below the paved surface to approximately 13.5 feet bgs

within the soil borings. Apparent native soils composed majorly of fine to coarse sand, with varying amounts of clay, silt, and gravel, were identified underlying the fill layer extending to approximately 25 feet bgs (the maximum soil boring depth). PID readings were not detected in any of the shallow soil borings advanced during the investigation (SB-2 and SB-04 through SB-12). Elevated PID readings (maximum readings of 34.6 ppm in SB-01 and 90.9 ppm in SB-03), petroleum-like odors, and minor staining were detected in soil borings SB-01 and SB-03 at and below the soil-groundwater interface. Soil descriptions, observations, and PID readings were recorded on the soil boring logs included in Appendix D.

Groundwater

Depth to water in the two temporary wells were observed at 7.64 and 7.15 feet bgs in TW-01 and TW-03, respectively. Headspace PID readings obtained from TW-01 and TW-03 had maximum recorded readings of 7.0 ppm and 3.2 ppm, respectively. In addition, purge water from the groundwater monitoring wells exhibited signs of contamination including slight petroleum-like odors and a visible sheen. No free phase product was detected in the groundwater monitoring wells during the sampling event. Temporary groundwater monitoring well construction logs are included in Appendix D.

Soil Vapor and Ambient Air

Purged vapors from the soil vapor samples were field-screened for VOCs with PID readings ranging from 3.6 to 6.3 ppm. Background PID readings were non-detect at all sample locations. Observations and PID readings are detailed in the air sampling logs provided in Appendix D.

5.0 ANALYTICAL RESULTS

5.1 Soil Sampling Results

Soil laboratory analyses were performed by Test America of Edison, New Jersey, a NYSDOH ELAP-certified laboratory. Soil laboratory analytical results are summarized in Tables 1 through 4. Analytical results were compared to 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Part 375 Soil Cleanup Objectives for Restricted Residential Use (RRSCOs), the applicable Soil Cleanup Objectives (SCOs) for the proposed future use of the Site. Soil sample analytical results for the soil samples are included in Tables 1 through 4. Soil concentrations exceeding UUSCOs and/or RRSCOs are shown on Figure 3. The complete soil laboratory analytical report is included in Appendix F.

VOCs

Fifteen VOCs were detected in one or more of the soil samples. No VOCs were detected above their RRSCOs in any of the soil samples. Benzene was detected above its UUSCO of 0.06 milligram per kilogram (mg/kg) but below its RRSCO of 4.9 mg/kg in SB-01_9-11_20191004 and SB-03_13.5-15.5_20191004 at 0.83 mg/kg and 0.19 mg/kg, respectively. Toluene was detected above its UUSCO of 0.7 mg/kg but below its RRSCO of 100 mg/kg in SB-02_9-11_20191004 at a concentration of 1.1 mg/kg. No other VOCs were detected at concentrations exceeding applicable standards.

Soil analytical results for VOCs are presented in Table 1.

SVOCs

Fifteen SVOCs were detected in one or more of the soil samples. No SVOCs were detected at concentrations exceeding applicable standards.

Soil analytical results for SVOCs are presented in Table 2.

Metals

Seven metals were detected in one or more of the soil samples. Six metals (arsenic, barium, cadmium, lead, selenium, and mercury) were detected at concentrations exceeding UUSCOs in at least one sample. Lead and mercury were also detected at concentrations exceeding their respective RRSCOs in several samples. Lead exceeded its RRSCO of 400 mg/kg in six soil samples, with a maximum concentration of 2,000 mg/kg in SB-08_0-2_20191004. Mercury exceeded its RRSCO of 0.81 mg/kg in four soil samples, with a maximum concentration of 1.2 mg/kg. No other metals were detected above applicable standards in the soil samples.

Soil analytical results for metals are presented in Table 3.

Pesticides

Two pesticides, 4,4-DDE and 4,4-DDT, were detected in one or more of the soil samples. 4,4-DDT was detected above its UUSCO of 0.0033 mg/kg but below its RRSCO of 7.9 mg/kg in SB-04_0-4_20191002 and SB-02_0-4.5_20191003 at 0.0048 mg/kg and 0.0060 mg/kg, respectively. No other pesticides were detected above applicable standards in the soil samples.

Soil analytical results for pesticides are presented in Table 4.

5.2 Groundwater Sampling Results

Groundwater laboratory analyses were performed by Test America of Edison, New Jersey, a NYSDOH ELAP-certified laboratory. Sample analytical results were compared to the NYSDEC Class GA Ambient Water Quality Standards (AWQS). Groundwater sample analytical results are

included in Tables 5 through 6. Groundwater concentrations exceeding AWQSs are shown on Figure 4. The complete groundwater laboratory analytical report is included in Appendix F.

VOCs

Twelve VOCs were detected in at least one of the two groundwater samples. Six of the 12 VOCs were detected above their respective AWQS in at least one of the two groundwater samples. Benzene was detected above its AWQS of 1 µg/L in samples TW-01_20191004 and TW-03_20191004, at 4.8 µg/L and 90 µg/L, respectively. Isopropylbenzene was detected above its AWQS of 5 µg/L in samples TW-01_20191004 and TW-03_20191004, at 42 µg/L and 49 µg/L, respectively. MTBE was detected above its AWQS of 10 µg/L in samples TW-01_20191004 and TW-03_20191004, at 41 µg/L and 21 µg/L, respectively. Ethylbenzene was detected above its AWQS of 5 µg/L in TW-03_20191004 at a concentration of 420 µg/L. Xylene was detected above its AWQS of 5 µg/L in TW-03_20191004 at a concentration of 600 µg/L. Toluene was detected above its AWQS of 5 µg/L in TW-03_20191004 at a concentration of 270 µg/L. No other VOCs were detected above applicable standards.

Groundwater analytical results for VOCs are presented in Table 5.

SVOCs

Twelve SVOCs were detected in at least one of the two groundwater samples in concentrations below their respective AWQS.

Groundwater analytical results for SVOCs are presented in Table 6.

5.3 Soil Vapor Sampling Results

The soil vapor sample analytical results identified 41 VOCs detected in at least one of the soil vapor samples. VOCs associated with petroleum [including BTEX, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,3-butadiene, 1,3-dichlorobenzene, 2,2,4-trimethylpentane, 2-hexanone, 4-ethyltoluene, benzyl chloride, cymene, isopropanol, isopropylbenzene, n-butylbenzene, n-heptane, n-hexane, n-propylbenzene, sec-butylbenzene, and styrene] were detected at individual concentrations up to 380 micrograms per cubic meter (µg/m^3) (xylene). Solvent-related VOCs [including 1,1,1-trichloroethane (1,1,1-TCA), 1,1,2-trichloro-1,2,2-trifluoroethane, acetone, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, cis-1,2-dichloroethylene (cis-1,2-DCE), cyclohexane, dichlorodifluoromethane, methyl ethyl ketone (MEK), methyl isobutyl ketone, methylene chloride, tert-butyl alcohol, tert-butyl methyl ether, trichlorofluoromethane, tetrachloroethene (PCE), and trichloroethene (TCE)] were detected at individual concentrations up to 630 µg/m^3 (chloroform).

Soil vapor sample analytical results are shown on Figure 5 and presented in Table 7. The complete soil vapor laboratory analytical report is located in Appendix F.

5.4 Ambient Air Sampling Results

Twenty-three VOCs were detected in the ambient air sample. VOCs associated with petroleum (including BTEX, 1,2,4-trimethylbenzene, 2,2,4-trimethylpentane, n-heptane, and n-hexane) were detected at individual concentrations up to 3.6 µg/m^3 (toluene) from a diluted analysis. Solvent-related VOCs (including 1,1,2-trichloro-1,2,2-trifluoroethane, acetone, carbon tetrachloride, chloroform, chloromethane, cyclohexane, dichlorodifluoromethane, methylene chloride, trichlorofluoromethane, and PCE) were detected at individual concentrations up to 10 µg/m^3 (acetone) from a diluted analysis.

6.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF, Inc. (AKRF) conducted a limited Subsurface (Phase II) Investigation at the Site located at 126 Bruckner Boulevard in Bronx, New York (Tax Block 2260, Lot 4), as shown on Figure 1. The scope of this investigation was based on a review of previous environmental investigations conducted at the Site (as described in Section 3.0), the proposed redevelopment, and Speedway drilling-access protocol limitations required for investigations at active services station sites.

Soil
Historic fill materials (including sand, gravel, silt, concrete, brick, coal, asphalt, glass, ceramic, plastic, and wood) were observed from just below the paved surface to approximately 13.5 feet bgs within the soil borings. Apparent native soils composed majorly of fine to coarse sand, with varying amounts of clay, silt, and gravel, were identified underlying the fill layer extending to approximately 25 feet bgs (the maximum soil boring depth).

PID readings were not detected in any of the shallow soil borings advanced during the investigation (SB-2 and SB-04 through SB-12). Elevated PID readings (maximum readings of 34.6 ppm in SB-01 and 90.9 ppm in SB-03), petroleum-like odors, and minor staining were detected in soil borings SB-01 and SB-03 at and below the soil-groundwater interface.

Groundwater
Depth to water in the two temporary wells was observed at approximately 7 feet bgs. Headspace PID readings obtained from TW-01 and TW-03 had maximum recorded readings of 7.0 ppm and 3.2 ppm, respectively. In addition, purge water from the groundwater monitoring wells exhibited signs of contamination including slight petroleum-like odors and a visible sheen. No free phase product was detected in the groundwater monitoring wells during the sampling event.

Soil Vapor
Previous environmental investigations at the Site, identified petroleum-related soil and groundwater contamination associated with Closed-NYSDEC Spill Case No. 9405017, which required long-term remediation and monitoring. As part of the Spill closure, residual contamination remains at the Site and NYSDEC indicated that any future redevelopment would require vapor mitigation. Purged vapors from the soil vapor samples were field-screened for VOCs with PID readings ranging from 3.6 to 6.3 ppm.

6.1 Conclusions

A summary of the analytical results for soil samples based on a comparison to 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) is as follows:

- VOCs were not detected above their RRSCOs in any of the soil samples. Benzene was detected above its UUSCO of 0.06 mg/kg but below its RRSCO of 4.9 mg/kg in SB-01_9-11_20191004 and SB-03_13.5-15.5_20191004 at 0.83 mg/kg and 0.19 mg/kg, respectively. Toluene was detected above its UUSCO of 0.7 mg/kg but below its RRSCO of 100 mg/kg in SB-02_9-11_20191004 at a concentration of 1.1 mg/kg. Benzene and toluene are petroleum-related compounds, which are likely related to historical operations or current gasoline filling station operations at the Site.
- SVOCs were not detected above applicable standards in any of the soil samples.
- Six metals (arsenic, barium, cadmium, lead, selenium, and mercury) were detected at concentrations exceeding UUSCOs in at least one sample. Lead and mercury were also detected at concentrations exceeding their respective RRSCOs. Lead exceeded its RRSCO

of 400 mg/kg in six soil samples, with a maximum concentration of 2,000 mg/kg in SB-08_0-2_20191004. Mercury exceeded its RRSCO of 0.81 mg/kg in four soil samples, with a maximum concentration of 1.2 mg/kg. These metal detections are likely related to historic filling and/or historic operations at the Site.

- 4,4-DDT was detected above its UUSCO of 0.0033 mg/kg but below its RRSCO of 7.9 mg/kg in SB-04_0-4_20191002 and SB-02_0-4.5_20191003 at 0.0048 mg/kg and 0.0060 mg/kg, respectively. These pesticide detections are likely attributable to the historical fill material observed in the soil borings, and not to a release or other source area.

A summary of the analytical results for groundwater samples based on a comparison to the NYSDEC Class GA AWQS is as follows:

- Benzene was detected above its AWQS of 1 µg/L in both TW-01_20191004 and TW-03_20191004, at 4.8 µg/L and 90 µg/L, respectively. Isopropylbenzene was detected above its AWQS of 5 µg/L in both TW-01_20191004 and TW-03_20191004, at 42 µg/L and 49 µg/L, respectively. MTBE was detected above its AWQS of 10 µg/L in both TW-01_20191004 and TW-03_20191004, at 41 µg/L and 21 µg/L, respectively. Ethylbenzene was detected above its AWQS of 5 µg/L in TW-03_20191004 at a concentration of 420 µg/L. Xylene was detected above its AWQS of 5 µg/L in TW-03_20191004 at a concentration of 600 µg/L. Toluene was detected above its AWQS of 5 µg/L in TW-03_20191004 at a concentration of 270 µg/L. These exceedances are petroleum-related compounds, which are likely related to historical operations and/or current gasoline filling station operations at the Site.
- SVOCs were not detected above applicable standards in any of the groundwater samples.

A summary of the analytical results for soil vapor samples is as follows:

- VOCs associated with petroleum [including BTEX, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,3-butadiene, 1,3-dichlorobenzene, 2,2,4-trimethylpentane, 2-hexanone, 4-ethyltoluene, benzyl chloride, cymene, isopropanol, isopropylbenzene, n-butylbenzene, n-heptane, n-hexane, n-propylbenzene, sec-butylbenzene, and styrene] were detected at individual concentrations up to 380 micrograms per cubic meter (µg/m^3) (xylene). Solvent-related VOCs [including 1,1,1-trichloroethane (1,1,1-TCA), 1,1,2-trichloro-1,2,2-trifluoroethane, acetone, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, cis-1,2-dichloroethylene (cis-1,2-DCE), cyclohexane, dichlorodifluoromethane, methyl ethyl ketone (MEK), methyl isobutyl ketone, methylene chloride, tert-butyl alcohol, tert-butyl methyl ether, trichlorofluoromethane, PCE, and TCE] were detected at individual concentrations up to 630 µg/m^3 (chloroform).

Based on an evaluation of the data and information from the investigation, there is evidence of petroleum-related groundwater and soil vapor contamination at the Site associated with Closed NYSDEC Spill No. 9405017. BTEX and other petroleum-related VOCs were reported above applicable standards in soil samples collected near the groundwater interface or "smear zone". These detections appear to be related to historic and current fueling operations at the Site. There are also low level solvent-related VOCs detected in soil vapor, which are likely attributable to an off-site source. In addition, lead and mercury were detected above RRSCOs in the historic fill present beneath the Site.

6.2 Recommendations

AKRF understands that the proposed redevelopment of the Site would entail the demolition of the existing gas station and removal of existing USTs, followed by the construction of a new mixed-use commercial and residential building with one subgrade level.

Based on a review of previous environmental investigation reports compiled at the Site, and the findings of this limited Subsurface Investigation, AKRF recommends the following measures be followed during completion of the redevelopment:

- Existing USTs associated with fueling operations should be closed and removed along with any contaminated soil in accordance with all applicable regulations. If additional undocumented USTs are identified during future excavation, such tanks should be registered with NYSDEC and/or the NYC Fire Department, if required, and closed and removed along with any contaminated soil in accordance with all applicable regulations.
- Due to drilling access restrictions and limitations of hand-clearing equipment, additional soil and groundwater testing should be conducted in inaccessible areas to further define the extent of petroleum-related contamination prior to redevelopment.
- The future building design should include a waterproofing membrane/vapor barrier to mitigate the potential for exposure from soil and or groundwater contamination at the Site.
- It is anticipated that dewatering would be necessary to construct the foundation and/or elevator pits for the proposed new building. If dewatering is required, it would likely require treatment for petroleum-related contaminants prior to discharge to the NYC sewer system in accordance with a New York City Department of Environmental Protection (NYCDEP) sewer discharge permit.
- Prior to demolition activities, asbestos-containing materials (ACM) in the existing structures should be properly removed and disposed of in accordance with all local, state, and federal regulations.
- Unless there is labeling or test data that indicates that fluorescent lights, hydraulic equipment, other electrical equipment are not mercury- and/or polychlorinated biphenyl (PCB)-containing, if disposal is required, it should be performed in accordance with applicable federal, state, and local regulations and guidelines.

7.0 LIMITATIONS

The findings set forth in this report are strictly limited in scope and time to the date of the evaluation described herein. The conclusions and recommendations presented in the report are based solely on the services and any limitations described in this report.

This report may contain conclusions that are based on the analysis of data collected at the time and locations noted in the report through intrusive or non-intrusive sampling. However, further investigation might reveal additional data or variations of the current data, which may differ from our understanding of the conditions presented in this report and require the enclosed recommendations to be reevaluated or modified.

Chemical analyses may have been performed for specific parameters during the course of this investigation, as summarized in the text and tables. It should be noted that additional chemical constituents, not searched for during this investigation, may be present at the Site. Due to the nature of the investigation and the limited data available, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, lead-based paint and asbestos-containing materials was not investigated, unless specified in the report.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The analytical data, conclusions, and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project site. Waste(s) generated at the site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as the data provided in this report may be insufficient and could vary following additional sampling.

This report may be based solely or partially on data collected, conducted, and provided by, AKRF and/or others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these reports may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This report is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, AKRF has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

This report is intended for the use solely by 126 Bruckner Owner LLC. Reliance by third parties on the information and opinions contained herein is strictly prohibited and requires the written consent of AKRF. AKRF accepts no responsibility for damages incurred by third parties for any decisions or actions taken based on this report. This report must be used, interpreted, and presented in its entirety.

8.0 SOIL DISPOSAL

In addition to the discussions in the Conclusions, Recommendations, and Limitations Sections (Sections 6.0 and 7.0), the appropriate management of off-site disposal of soil warrants careful consideration. Any soil/fill material being disposed of off-site is a regulated waste, and disposal must be in accordance with:

- Requirements of the specific receiving facility;
- Requirements of any agencies overseeing the cleanup/excavation; and
- Federal and state requirements (sometimes in both the state where the soil is generated and where disposal will occur).

For hazardous wastes and petroleum-contaminated soil (and other 'clearly contaminated' materials), the requirements are usually fairly well defined. It is in the situation where contamination is not readily apparent (e.g., so called "historic or urban fill" or "construction and demolition debris" or material that may have been formerly identified as "clean fill") that present the greatest potential for problems and cost overruns. Even on sites where no contamination requiring remediation is identified, it is common that most of the excavated material is considered "contaminated" for purposes of waste disposal. Concentrations of the various contaminants in historic fill can be highly variable, and upon further testing, the material could contain higher contaminant concentrations than outlined in this investigation. Portions of this material could be classified as hazardous waste.

It is important that the intended disposal facility (or facilities) be identified in advance of off-site disposal. Agency approval is sometimes required for disposal, and the facility will frequently require additional testing prior to (and sometimes at the time of) accepting material. Material must conform to a lengthy list of requirements based on both chemical composition and sometimes numerous other parameters (related to size, percentage of liquids, presence of odors, etc.) for acceptance at the facility. Assuming (or allowing a contractor to assume) that all, or even most, of the soil from a site can be disposed of at minimal cost may result in unanticipated and expensive change orders.

For these reasons, we recommend that professional advice be sought prior to preparing bid documents and contracts incorporating soil disposal.

9.0 REFERENCES

1. Underground Storage Tank Closure Report, Merit Bruckner, 126 Bruckner Boulevard, Bronx, New York, Groundwater & Environmental Services, Inc., April 1993
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4. Subsurface Investigation, Merit Bruckner Gasoline Station, 126-128 Bruckner Boulevard, Bronx, New York, Leggette, Brashears, & Graham, Inc., January 2000
5. Monitoring Well Installation Report, Hess Station #32506, 126 Bruckner Boulevard, Bronx, New York, Geologic Services Corporation, August 2002
6. Remedial Action Plan, Hess Station #32506, 126-128 Bruckner Boulevard, Bronx, NY, EnviroTrac, Ltd., August 2010
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8. Quarterly Groundwater Monitoring Reports, Speedway #7811/Hess Station #32506, 126-128 Bruckner Boulevard, Bronx, NY, EnviroTrac, Ltd. and Spill Closure
9. Phase I Environmental Site Assessment (ESA), 126 Bruckner Boulevard, Bronx, New York, AKRF, August 2019

Table 1

Soil Analytical Results of Volatile Organic Compounds (VOCs)

Table 1
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-01_4.5-6_20191003	SB-01_9-11_20191004	SB-02_0-4.5_20191003	SB-03_0-6_20191003	SB-03_9-11_20191004
		Laboratory Sample ID	460-192933-5	460-193055-8	460-192933-4	460-192933-3	460-193055-9
		Date Sampled	10/3/2019 3:55:00 PM	10/4/2019 9:15:00 AM	10/3/2019 1:45:00 PM	10/3/2019 11:20:00 AM	10/4/2019 1:45:00 PM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	50	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,1,2-Trichloroethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,1-Dichloroethane	0.27	26	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,1-Dichloroethene	0.33	100	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,2,3-Trichlorobenzene	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,2,4-Trichlorobenzene	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,2-Dichlorobenzene	1.1	100	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,2-Dichloroethane	0.02	3.1	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,2-Dichloropropane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,3-Dichlorobenzene	2.4	49	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
1,4-Dichlorobenzene	1.8	13	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
2-Hexanone	NS	NS	0.0072 U	0.61 U	0.0069 U	0.0054 U	0.0061 U
Acetone	0.05	100	0.023	0.61 U	0.0083 U	0.0064 U	0.024
Benzene	**0.06**	4.8	0.0011 J	**0.83**	0.0014 U	0.0011 U	0.00043 J
Bromochloromethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Bromodichloromethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Bromoform	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Bromomethane	NS	NS	0.0014 U	0.12 UT	0.0014 U	0.0011 U	0.0012 U
Carbon Disulfide	NS	NS	0.00074 J	0.12 U	0.0014 U	0.0011 U	0.00097 J
Carbon Tetrachloride	0.76	2.4	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Chlorobenzene	1.1	100	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Chloroethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Chloroform	0.37	49	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Chloromethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Cis-1,2-Dichloroethylene	0.25	100	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Cis-1,3-Dichloropropene	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Cyclohexane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Dibromochloromethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Dichlorodifluoromethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Ethylbenzene	1	41	0.0014 U	0.83	0.0014 U	0.0011 U	0.0012 U
Isopropylbenzene (Cumene)	NS	NS	0.0014 U	0.14	0.0014 U	0.0011 U	0.013
M,P-Xylenes	NS	NS	0.0006 J	1.4	0.0014 U	0.0011 U	0.00028 J
Methyl Acetate	NS	NS	0.0072 U	0.61 U	0.0069 U	0.0054 UT	0.0061 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0069 J	0.61 U	0.0069 U	0.0054 U	0.008
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0072 U	0.61 U	0.0069 U	0.0054 U	0.0061 U
Methylcyclohexane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Methylene Chloride	0.05	100	0.00067 J	0.12 U	0.0014 U	0.00051 BJ	0.00066 J
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.00033 J	0.18	0.0014 U	0.0011 U	0.0012 U
Styrene	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Tert-Butyl Methyl Ether	0.93	100	0.0011 J	0.17	0.0014 U	0.0011 U	0.0012 UT
Tetrachloroethylene (PCE)	1.3	19	0.00031 J	0.12 U	0.00024 J	0.00018 J	0.0012 U
Toluene	**0.7**	100	0.0012 J	**1.1**	0.0014 U	0.0011 U	0.0012 U
Trans-1,2-Dichloroethene	0.19	100	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Trans-1,3-Dichloropropene	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Trichloroethylene (TCE)	0.47	21	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Trichlorofluoromethane	NS	NS	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U
Vinyl Chloride	0.02	0.9	0.0014 U	0.12 U	0.0014 U	0.0011 U	0.0012 U

Table 1
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-03_13.5-15.5_20191004	SB-04_0-4_20191002	SB-05_0-5_20191002	SB-06_0-2_20191004	SB-07_0-2_20191004
		Laboratory Sample ID	460-193055-10	460-192933-2	460-192933-1	460-193055-1	460-193055-3
		Date Sampled	10/4/2019 2:20:00 PM	10/2/2019 2:35:00 PM	10/2/2019 11:15:00 AM	10/4/2019 8:10:00 AM	10/4/2019 8:45:00 AM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	50	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,1,2,2-Tetrachloroethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,1,2-Trichloroethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,1-Dichloroethane	0.27	26	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,1-Dichloroethene	0.33	100	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,2,3-Trichlorobenzene	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,2,4-Trichlorobenzene	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,2-Dichlorobenzene	1.1	100	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,2-Dichloroethane	0.02	3.1	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,2-Dichloropropane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,3-Dichlorobenzene	2.4	49	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
1,4-Dichlorobenzene	1.8	13	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
2-Hexanone	NS	NS	0.53 U	0.0092 U	0.0063 U	0.0072 U	0.0052 U
Acetone	0.05	100	0.53 U	0.017	0.0075 U	0.0087 U	0.0063 U
Benzene	**0.06**	4.8	**0.19**	0.0018 U	0.0013 U	0.0014 U	0.001 U
Bromochloromethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Bromodichloromethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Bromoform	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Bromomethane	NS	NS	0.11 UT	0.0018 U	0.0013 U	0.0014 U	0.001 U
Carbon Disulfide	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Carbon Tetrachloride	0.76	2.4	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Chlorobenzene	1.1	100	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Chloroethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Chloroform	0.37	49	0.11 U	0.00066 J	0.0013 U	0.0014 U	0.001 U
Chloromethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 UT	0.001 UT
Cis-1,2-Dichloroethylene	0.25	100	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Cis-1,3-Dichloropropene	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Cyclohexane	NS	NS	0.22	0.0018 U	0.0013 U	0.0014 U	0.001 U
Dibromochloromethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Dichlorodifluoromethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 UT	0.001 UT
Ethylbenzene	1	41	0.47	0.0018 U	0.0013 U	0.0014 U	0.001 U
Isopropylbenzene (Cumene)	NS	NS	0.26	0.0018 U	0.0013 U	0.0014 U	0.001 U
M,P-Xylenes	NS	NS	1.4	0.00038 J	0.0013 U	0.0014 U	0.001 U
Methyl Acetate	NS	NS	0.53 U	0.0092 UT	0.0063 UT	0.0072 UT	0.0052 UT
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.53 U	0.0092 U	0.0063 U	0.0072 U	0.0052 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.53 U	0.0092 U	0.0063 U	0.0072 UT	0.0052 UT
Methylcyclohexane	NS	NS	0.62	0.0018 U	0.0013 U	0.0014 U	0.001 U
Methylene Chloride	0.05	100	0.11 U	0.00087 BJ	0.0013 U	0.0014 U	0.00058 J
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.6	0.0018 U	0.0013 U	0.0014 U	0.001 U
Styrene	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Tert-Butyl Methyl Ether	0.93	100	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Tetrachloroethylene (PCE)	1.3	19	0.11 U	0.0015 J	0.00027 J	0.0014 U	0.001 U
Toluene	**0.7**	100	0.11	0.00045 J	0.00031 J	0.00054 J	0.00051 J
Trans-1,2-Dichloroethene	0.19	100	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Trans-1,3-Dichloropropene	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Trichloroethylene (TCE)	0.47	21	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Trichlorofluoromethane	NS	NS	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U
Vinyl Chloride	0.02	0.9	0.11 U	0.0018 U	0.0013 U	0.0014 U	0.001 U

Table 1
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Volatile Organic Compounds (VOCs)

		AKRF Sample ID	SB-08_0-2_20191004	SB-09_0-2_20191004	SB-10_0-2_20191004	SB-11_0-1.5_20191004	SB-12_0-2_20191004
		Laboratory Sample ID	460-193055-2	460-193055-5	460-193055-7	460-193055-6	460-193055-4
		Date Sampled	10/4/2019 8:25:00 AM	10/4/2019 9:55:00 AM	10/4/2019 11:15:00 AM	10/4/2019 10:30:00 AM	10/4/2019 9:25:00 AM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	0.68	100	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,1,2-Trichloroethane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,1-Dichloroethane	0.27	26	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,1-Dichloroethene	0.33	100	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,2,3-Trichlorobenzene	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,2,4-Trichlorobenzene	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,2-Dichlorobenzene	1.1	100	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,2-Dichloroethane	0.02	3.1	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,2-Dichloropropane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,3-Dichlorobenzene	2.4	49	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
1,4-Dichlorobenzene	1.8	13	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
2-Hexanone	NS	NS	0.0059 U	0.0065 U	0.0067 U	0.0058 U	0.0058 U
Acetone	0.05	100	0.0097	0.011	0.0081 U	0.0069 U	0.007 U
Benzene	**0.06**	4.8	0.0012 U	0.0013 U	0.00041 J	0.0012 U	0.0012 U
Bromochloromethane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Bromodichloromethane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Bromoform	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Bromomethane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Carbon Disulfide	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Carbon Tetrachloride	0.76	2.4	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Chlorobenzene	1.1	100	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Chloroethane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Chloroform	0.37	49	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Chloromethane	NS	NS	0.0012 UT	0.0013 U	0.0013 U	0.0012 U	0.0012 UT
Cis-1,2-Dichloroethylene	0.25	100	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Cis-1,3-Dichloropropene	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Cyclohexane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Dibromochloromethane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Dichlorodifluoromethane	NS	NS	0.0012 UT	0.0013 UT	0.0013 UT	0.0012 UT	0.0012 UT
Ethylbenzene	1	41	0.0012 U	0.0013 U	0.0013 U	0.00036 J	0.0012 U
Isopropylbenzene (Cumene)	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.00021 J	0.0012 U
M,P-Xylenes	NS	NS	0.0012 U	0.0013 U	0.00023 J	0.0014	0.0012 U
Methyl Acetate	NS	NS	0.0059 UT	0.0065 U	0.0067 U	0.0058 U	0.0058 UT
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0059 U	0.0065 U	0.0067 U	0.0058 U	0.0058 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0059 UT	0.0065 U	0.0067 U	0.0058 U	0.0058 UT
Methylcyclohexane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Methylene Chloride	0.05	100	0.00058 J	0.0013 U	0.0013 U	0.00063 J	0.0012 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.00098 J	0.0012 U
Styrene	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Tert-Butyl Methyl Ether	0.93	100	0.00023 J	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Tetrachloroethylene (PCE)	1.3	19	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Toluene	**0.7**	100	0.0005 J	0.0013 U	0.00049 J	0.00079 J	0.0012 U
Trans-1,2-Dichloroethene	0.19	100	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Trans-1,3-Dichloropropene	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Trichloroethylene (TCE)	0.47	21	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Trichlorofluoromethane	NS	NS	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U
Vinyl Chloride	0.02	0.9	0.0012 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U

Table 2

Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

Table 2
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-01_4.5-6_20191003	SB-01_9-11_20191004	SB-02_0-4.5_20191003	SB-03_0-6_20191003	SB-03_9-11_20191004
		Laboratory Sample ID	460-192933-5	460-193055-8	460-192933-4	460-192933-3	460-193055-9
		Date Sampled	10/3/2019 3:55:00 PM	10/4/2019 9:15:00 AM	10/3/2019 1:45:00 PM	10/3/2019 11:20:00 AM	10/4/2019 1:45:00 PM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Acenaphthene	20	100	0.06 J	0.52	0.065 J	0.37 U	0.4 U
Acenaphthylene	100	100	0.15 J	0.17 J	0.31 J	0.025 J	0.4 U
Anthracene	100	100	0.22 J	0.19 J	0.2 J	0.036 J	0.4 U
Benzo(a)Anthracene	1	1	0.67	0.11	0.63	0.24	0.04 U
Benzo(a)Pyrene	1	1	0.54	0.045	0.55	0.24	0.04 U
Benzo(b)Fluoranthene	1	1	0.8	0.09	0.83	0.33	0.04 U
Benzo(g,h,i)Perylene	100	100	0.33 J	0.026 J	0.34 J	0.15 J	0.4 U
Benzo(k)Fluoranthene	0.8	3.9	0.29	0.027 J	0.28	0.11	0.04 U
Chrysene	1	3.9	0.79	0.14 J	0.75	0.27 J	0.4 U
Dibenz(a,h)Anthracene	0.33	0.33	0.074	0.042 U	0.076	0.033 J	0.04 U
Fluoranthene	100	100	1.3	0.52	1.2	0.33 J	0.038 J
Fluorene	30	100	0.061 J	1.1	0.066 J	0.37 U	0.4 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.34	0.042 U	0.37	0.18	0.04 U
Naphthalene	12	100	0.4	2	0.94	0.033 J	0.4 U
Phenanthrene	100	100	0.9	2.1	0.92	0.14 J	0.014 J
Pyrene	100	100	1.3	0.62	1.2	0.32 J	0.028 J

Table 2
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-03_13.5-15.5_20191004	SB-04_0-4_20191002	SB-05_0-5_20191002	SB-06_0-2_20191004	SB-07_0-2_20191004
		Laboratory Sample ID	460-193055-10	460-192933-2	460-192933-1	460-193055-1	460-193055-3
		Date Sampled	10/4/2019 2:20:00 PM	10/2/2019 2:35:00 PM	10/2/2019 11:15:00 AM	10/4/2019 8:10:00 AM	10/4/2019 8:45:00 AM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Acenaphthene	20	100	0.087 J	0.034 J	0.36 U	0.4 U	0.37 U
Acenaphthylene	100	100	0.42 U	0.031 J	0.035 J	0.16 J	0.37 U
Anthracene	100	100	0.039 J	0.096 J	0.069 J	0.049 J	0.044 J
Benzo(a)Anthracene	1	1	0.028 J	0.38	0.23	0.17	0.29
Benzo(a)Pyrene	1	1	0.042 U	0.32	0.2	0.12	0.28
Benzo(b)Fluoranthene	1	1	0.042 U	0.44	0.31	0.25	0.43
Benzo(g,h,i)Perylene	100	100	0.42 U	0.19 J	0.14 J	0.098 J	0.16 J
Benzo(k)Fluoranthene	0.8	3.9	0.042 U	0.18	0.1	0.076	0.13
Chrysene	1	3.9	0.42 U	0.43	0.27 J	0.29 J	0.37
Dibenz(a,h)Anthracene	0.33	0.33	0.042 U	0.053	0.03 J	0.039 J	0.043
Fluoranthene	100	100	0.061 J	0.67	0.45	0.29 J	0.59
Fluorene	30	100	0.11 J	0.029 J	0.028 J	0.043 J	0.37 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.042 U	0.22	0.14	0.093	0.17
Naphthalene	12	100	0.46	0.04 J	0.062 J	0.45	0.37 U
Phenanthrene	100	100	0.23 J	0.44	0.3 J	0.3 J	0.23 J
Pyrene	100	100	0.069 J	0.67	0.42	0.31 J	0.61

Table 2
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)

		AKRF Sample ID	SB-08_0-2_20191004	SB-09_0-2_20191004	SB-10_0-2_20191004	SB-11_0-1.5_20191004	SB-12_0-2_20191004
		Laboratory Sample ID	460-193055-2	460-193055-5	460-193055-7	460-193055-6	460-193055-4
		Date Sampled	10/4/2019 8:25:00 AM	10/4/2019 9:55:00 AM	10/4/2019 11:15:00 AM	10/4/2019 10:30:00 AM	10/4/2019 9:25:00 AM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Acenaphthene	20	100	0.39 U	0.37 U	0.043 J	0.36 U	0.36 U
Acenaphthylene	100	100	0.02 J	0.035 J	0.025 J	0.36 U	0.36 U
Anthracene	100	100	0.037 J	0.059 J	0.11 J	0.023 J	0.032 J
Benzo(a)Anthracene	1	1	0.31	0.25	0.43	0.17	0.2
Benzo(a)Pyrene	1	1	0.26	0.21	0.35	0.17	0.16
Benzo(b)Fluoranthene	1	1	0.38	0.33	0.49	0.23	0.22
Benzo(g,h,i)Perylene	100	100	0.16 J	0.15 J	0.25 J	0.13 J	0.14 J
Benzo(k)Fluoranthene	0.8	3.9	0.14	0.098	0.21	0.082	0.085
Chrysene	1	3.9	0.32 J	0.28 J	0.46	0.17 J	0.21 J
Dibenz(a,h)Anthracene	0.33	0.33	0.044	0.04	0.072	0.037	0.046
Fluoranthene	100	100	0.48	0.38	0.79	0.24 J	0.25 J
Fluorene	30	100	0.39 U	0.37 U	0.05 J	0.36 U	0.36 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.18	0.17	0.27	0.14	0.13
Naphthalene	12	100	0.064 J	0.036 J	0.081 J	0.36 U	0.36 U
Phenanthrene	100	100	0.21 J	0.21 J	0.57	0.084 J	0.11 J
Pyrene	100	100	0.57	0.48	0.95	0.31 J	0.31 J

Table 3

Soil Analytical Results of Metals

Table 3
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-01_4.5-6_20191003	SB-01_4.5-6_20191003	SB-01_9-11_20191004	SB-01_9-11_20191004	SB-02_0-4.5_20191003
		Laboratory Sample ID	460-192933-5	460-192933-5	460-193055-8	460-193055-8	460-192933-4
		Date Sampled	10/3/2019 3:55:00 PM	10/3/2019 3:55:00 PM	10/4/2019 9:15:00 AM	10/4/2019 9:15:00 AM	10/3/2019 1:45:00 PM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	3	20	1	20	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Arsenic	**13**	16	NR	**14.7**	NR	3.8	NR
Barium	**350**	400	NR	**538**	NR	109	NR
Cadmium	**2.5**	4.3	NR	**2.9**	NR	1.1 U	NR
Chromium, Total	NS	NS	NR	26.8	NR	14.5	NR
Lead	**63**	400	NR	**1,640**	NR	**230**	NR
Mercury	**0.18**	0.81	**1.2**	NT	**0.44**	NT	**0.76**
Selenium	3.9	180	NR	1.3 J	NR	1.6 J	NR
Silver	2	180	NR	1.1 U	NR	1.1 U	NR

Table 3
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-02_0-4.5_20191003	SB-03_0-6_20191003	SB-03_0-6_20191003	SB-03_9-11_20191004	SB-03_9-11_20191004
		Laboratory Sample ID	460-192933-4	460-192933-3	460-192933-3	460-193055-9	460-193055-9
		Date Sampled	10/3/2019 1:45:00 PM	10/3/2019 11:20:00 AM	10/3/2019 11:20:00 AM	10/4/2019 1:45:00 PM	10/4/2019 1:45:00 PM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	20	1	20	1	20
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Arsenic	**13**	16	7.2	NR	3.6	NR	3.9
Barium	**350**	400	221	NR	104	NR	62.1
Cadmium	**2.5**	4.3	1.1	NR	0.47 J	NR	1.1 U
Chromium, Total	NS	NS	19	NR	16.4	NR	21.8
Lead	**63**	400	**607**	NR	**376**	NR	48.4
Mercury	**0.18**	0.81	NT	**0.29**	NT	**0.22**	NT
Selenium	3.9	180	0.53 J	NR	5.2 U	NR	5.4 U
Silver	2	180	1 U	NR	1 U	NR	1.1 U

Table 3
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-03_13.5-15.5_20191004	SB-03_13.5-15.5_20191004	SB-04_0-4_20191002	SB-04_0-4_20191002	SB-05_0-5_20191002
		Laboratory Sample ID	460-193055-10	460-193055-10	460-192933-2	460-192933-2	460-192933-1
		Date Sampled	10/4/2019 2:20:00 PM	10/4/2019 2:20:00 PM	10/2/2019 2:35:00 PM	10/2/2019 2:35:00 PM	10/2/2019 11:15:00 AM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	20	3	20	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Arsenic	**13**	16	NR	1.5	NR	7.1	NR
Barium	**350**	400	NR	63.5	NR	271	NR
Cadmium	**2.5**	4.3	NR	1.3 U	NR	1.3	NR
Chromium, Total	NS	NS	NR	26.1	NR	28.2	NR
Lead	**63**	400	NR	4.5	NR	**643**	NR
Mercury	**0.18**	0.81	0.018 J	NT	**1.2**	NT	**0.34**
Selenium	3.9	180	NR	6.3 U	NR	0.44 J	NR
Silver	2	180	NR	1.3 U	NR	1.1 U	NR

Table 3
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

			AKRF Sample ID	SB-05_0-5_20191002	SB-06_0-2_20191004	SB-06_0-2_20191004	SB-07_0-2_20191004	SB-07_0-2_20191004
			Laboratory Sample ID	460-192933-1	460-193055-1	460-193055-1	460-193055-3	460-193055-3
			Date Sampled	10/2/2019 11:15:00 AM	10/4/2019 8:10:00 AM	10/4/2019 8:10:00 AM	10/4/2019 8:45:00 AM	10/4/2019 8:45:00 AM
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Dilution Factor	20	1	20	1	20
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**		CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Arsenic	**13**	16		3.3	NR	**15.8**	NR	4
Barium	**350**	400		132	NR	**727**	NR	40.9
Cadmium	**2.5**	4.3		0.44 J	NR	1.6	NR	1 U
Chromium, Total	NS	NS		11.6	NR	37.8	NR	12.2
Lead	**63**	400		**184**	NR	**746**	NR	52.8
Mercury	**0.18**	0.81		NT	**0.81**	NT	0.1	NT
Selenium	3.9	180		5.1 U	NR	1.1 J	NR	5.1 U
Silver	2	180		1 U	NR	1.1 U	NR	1 U

Table 3
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-08_0-2_20191004	SB-08_0-2_20191004	SB-09_0-2_20191004	SB-09_0-2_20191004	SB-10_0-2_20191004
		Laboratory Sample ID	460-193055-2	460-193055-2	460-193055-5	460-193055-5	460-193055-7
		Date Sampled	10/4/2019 8:25:00 AM	10/4/2019 8:25:00 AM	10/4/2019 9:55:00 AM	10/4/2019 9:55:00 AM	10/4/2019 11:15:00 AM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	20	1	20	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Arsenic	**13**	16	NR	6.4	NR	7	NR
Barium	**350**	400	NR	288	NR	263	NR
Cadmium	**2.5**	4.3	NR	1.3	NR	1.9	NR
Chromium, Total	NS	NS	NR	25.5	NR	19.7	NR
Lead	**63**	400	NR	**2,000**	NR	**708**	NR
Mercury	**0.18**	0.81	**0.92**	NT	**0.73**	NT	**0.52**
Selenium	3.9	180	NR	0.33 J	NR	0.82 J	NR
Silver	2	180	NR	1.1 U	NR	1 U	NR

Table 3
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Metals

		AKRF Sample ID	SB-10_0-2_20191004	SB-11_0-1.5_20191004	SB-11_0-1.5_20191004	SB-12_0-2_20191004	SB-12_0-2_20191004
		Laboratory Sample ID	460-193055-7	460-193055-6	460-193055-6	460-193055-4	460-193055-4
		Date Sampled	10/4/2019 11:15:00 AM	10/4/2019 10:30:00 AM	10/4/2019 10:30:00 AM	10/4/2019 9:25:00 AM	10/4/2019 9:25:00 AM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	20	1	20	1	20
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Arsenic	**13**	16	6.6	NR	3.9	NR	3.5
Barium	**350**	400	258	NR	87.2	NR	66.5
Cadmium	**2.5**	4.3	0.65 J	NR	0.42 J	NR	0.99 U
Chromium, Total	NS	NS	18.7	NR	15	NR	13.7
Lead	**63**	400	**580**	NR	**173**	NR	**74.7**
Mercury	**0.18**	0.81	NT	**0.23**	NT	0.16	NT
Selenium	3.9	180	0.47 J	NR	5.3 U	NR	4.9 U
Silver	2	180	1.1 U	NR	1.1 U	NR	0.99 U

Table 4

Soil Analytical Results of Pesticides

Table 4
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

			AKRF Sample ID	SB-01_4.5-6_20191003	SB-01_9-11_20191004	SB-02_0-4.5_20191003	SB-03_0-6_20191003	SB-03_9-11_20191004
			Laboratory Sample ID	460-192933-5	460-193055-8	460-192933-4	460-192933-3	460-193055-9
			Date Sampled	10/3/2019 3:55:00 PM	10/4/2019 9:15:00 AM	10/3/2019 1:45:00 PM	10/3/2019 11:20:00 AM	10/4/2019 1:45:00 PM
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**		CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48		0.0022 U	0.0025 U	0.0022 U	0.0022 U	0.0024 U
Alpha Endosulfan	NS	NS		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36		0.0022 U	0.0025 U	0.0022 U	0.0022 U	0.0024 U
Beta Endosulfan	NS	NS		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100		0.0022 U	0.0025 U	0.0022 U	0.0022 U	0.0024 U
Dieldrin	0.005	0.2		0.0022 U	0.0025 U	0.0022 U	0.0022 U	0.0024 U
Endosulfan Sulfate	NS	NS		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
Endrin	0.014	11		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
Endrin Aldehyde	NS	NS		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
Endrin Ketone	NS	NS		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
Gamma Bhc (Lindane)	0.1	1.3		0.0022 U	0.0025 U	0.0022 U	0.0022 U	0.0024 U
Heptachlor	0.042	2.1		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
Heptachlor Epoxide	NS	NS		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
Methoxychlor	NS	NS		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
P,P'-DDD	0.0033	13		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
P,P'-DDE	0.0033	8.9		0.0074 U	0.0085 U	0.0074 U	0.0075 U	0.008 U
P,P'-DDT	**0.0033**	7.9		0.0025 J	0.0085 U	**0.006 J**	0.0075 U	0.008 U
Toxaphene	NS	NS		0.074 U	0.085 U	0.074 U	0.075 U	0.08 U

Table 4
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Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

			AKRF Sample ID	SB-03_13.5-15.5_20191004	SB-04_0-4_20191002	SB-05_0-5_20191002	SB-06_0-2_20191004	SB-07_0-2_20191004
			Laboratory Sample ID	460-193055-10	460-192933-2	460-192933-1	460-193055-1	460-193055-3
			Date Sampled	10/4/2019 2:20:00 PM	10/2/2019 2:35:00 PM	10/2/2019 11:15:00 AM	10/4/2019 8:10:00 AM	10/4/2019 8:45:00 AM
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**		CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48		0.0025 U	0.0024 U	0.0022 U	0.0024 U	0.0022 U
Alpha Endosulfan	NS	NS		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36		0.0025 U	0.0024 U	0.0022 U	0.0024 U	0.0022 U
Beta Endosulfan	NS	NS		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100		0.0025 U	0.0024 U	0.0022 U	0.0024 U	0.0022 U
Dieldrin	0.005	0.2		0.0025 U	0.0024 U	0.0022 U	0.0024 U	0.0022 U
Endosulfan Sulfate	NS	NS		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
Endrin	0.014	11		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
Endrin Aldehyde	NS	NS		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
Endrin Ketone	NS	NS		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
Gamma Bhc (Lindane)	0.1	1.3		0.0025 U	0.0024 U	0.0022 U	0.0024 U	0.0022 U
Heptachlor	0.042	2.1		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
Heptachlor Epoxide	NS	NS		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
Methoxychlor	NS	NS		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
P,P'-DDD	0.0033	13		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
P,P'-DDE	0.0033	8.9		0.0085 U	0.008 U	0.0073 U	0.0081 U	0.0074 U
P,P'-DDT	**0.0033**	7.9		0.0085 U	**0.0048 JP**	0.0029 J	0.0081 U	0.0074 U
Toxaphene	NS	NS		0.085 U	0.08 U	0.073 U	0.081 U	0.074 U

Table 4
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Analytical Results of Pesticides

		AKRF Sample ID	SB-08_0-2_20191004	SB-09_0-2_20191004	SB-10_0-2_20191004	SB-11_0-1.5_20191004	SB-12_0-2_20191004
		Laboratory Sample ID	460-193055-2	460-193055-5	460-193055-7	460-193055-6	460-193055-4
		Date Sampled	10/4/2019 8:25:00 AM	10/4/2019 9:55:00 AM	10/4/2019 11:15:00 AM	10/4/2019 10:30:00 AM	10/4/2019 9:25:00 AM
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Dilution Factor	1	1	1	1	1
Compound	**NYSDEC UUSCO**	**NYSDEC RRSCO**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	0.005	0.097	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.0023 U	0.0023 U	0.0023 U	0.0022 U	0.0022 U
Alpha Endosulfan	NS	NS	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.0023 U	0.0023 U	0.0023 U	0.0022 U	0.0022 U
Beta Endosulfan	NS	NS	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.0023 U	0.0023 U	0.0023 U	0.0022 U	0.0022 U
Dieldrin	0.005	0.2	0.0023 U	0.0023 U	0.0023 U	0.0022 U	0.0022 U
Endosulfan Sulfate	NS	NS	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
Endrin	0.014	11	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
Endrin Aldehyde	NS	NS	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
Endrin Ketone	NS	NS	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
Gamma Bhc (Lindane)	0.1	1.3	0.0023 U	0.0023 U	0.0023 U	0.0022 U	0.0022 U
Heptachlor	0.042	2.1	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
Heptachlor Epoxide	NS	NS	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
Methoxychlor	NS	NS	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
P,P'-DDD	0.0033	13	0.0078 U	0.0076 U	0.0077 U	0.0073 U	0.0072 U
P,P'-DDE	0.0033	8.9	0.0078 U	0.0076 U	0.002 JP	0.0073 U	0.0072 U
P,P'-DDT	**0.0033**	7.9	0.0078 U	0.0076 U	0.0023 JP	0.0073 U	0.0072 U
Toxaphene	NS	NS	0.078 U	0.076 U	0.077 U	0.073 U	0.072 U

Table 5

Groundwater Analytical Results of VOCs

Table 5
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of VOCs

	AKRF Sample ID	TW-01_20191004	TW-03_20191004
	Laboratory Sample ID	460-193100-1	460-193100-2
	Date Sampled	10/4/2019 10:30:00 AM	10/4/2019 2:50:00 PM
	Unit	µg/L	µg/L
	Dilution Factor	1	5
Compound	**AWQSGV**	CONC Q	CONC Q
1,1,1-Trichloroethane	5	1 U	5 U
1,1,2,2-Tetrachloroethane	5	1 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1 U	5 U
1,1,2-Trichloroethane	1	1 U	5 U
1,1-Dichloroethane	5	1 U	5 U
1,1-Dichloroethene	5	1 U	5 U
1,2,3-Trichlorobenzene	5	1 U	5 U
1,2,4-Trichlorobenzene	5	1 U	5 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1 U	5 U
1,2-Dichlorobenzene	3	1 U	5 U
1,2-Dichloroethane	0.6	1 U	5 U
1,2-Dichloropropane	1	1 U	5 U
1,3-Dichlorobenzene	3	1 U	5 U
1,4-Dichlorobenzene	3	1 U	5 U
2-Hexanone	50	5 U	25 U
Acetone	50	18	50
Benzene	**1**	**5.8**	**90**
Bromochloromethane	5	1 U	5 U
Bromodichloromethane	50	1 U	5 U
Bromoform	50	1 U	5 U
Bromomethane	5	1 U	5 U
Carbon Disulfide	60	1 U	5 U
Carbon Tetrachloride	5	1 U	5 U
Chlorobenzene	5	1 U	5 U
Chloroethane	5	1 UT	5 UT
Chloroform	7	1 U	4.3 J
Chloromethane	5	1 U	5 U
Cis-1,2-Dichloroethylene	5	1 U	5 U
Cis-1,3-Dichloropropene	NS	1 U	5 U
Cyclohexane	NS	7.5	29
Dibromochloromethane	50	1 U	5 U
Dichlorodifluoromethane	5	1 UT	5 U
Ethylbenzene	**5**	1.3	**420**
Isopropylbenzene (Cumene)	**5**	**42**	**49**
M,P-Xylenes	**5**	3.9	**1,200**
Methyl Acetate	NS	5 U	25 U
Methyl Ethyl Ketone (2-Butanone)	50	4.3 J	25 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	25 U
Methylcyclohexane	NS	12	42
Methylene Chloride	5	1 U	5 U
O-Xylene (1,2-Dimethylbenzene)	**5**	3.8	**600**
Styrene	5	1 U	5 U
Tert-Butyl Methyl Ether	**10**	**41**	**21**
Tetrachloroethylene (PCE)	5	1 U	5 U
Toluene	**5**	2.1	**270**
Trans-1,2-Dichloroethene	5	1 U	5 U
Trans-1,3-Dichloropropene	NS	1 U	5 U
Trichloroethylene (TCE)	5	1 U	5 U
Trichlorofluoromethane	5	1 U	5 U
Vinyl Chloride	2	1 U	5 U

Table 6

Groundwater Analytical Results of SVOCs

Table 6
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Groundwater Analytical Results of SVOCs

	AKRF Sample ID	TW-01_20191004	TW-03_20191004
	Laboratory Sample ID	460-193100-1	460-193100-2
	Date Sampled	10/4/2019 10:30:00 AM	10/4/2019 2:50:00 PM
	Unit	µg/L	µg/L
	Dilution Factor	1	1
Compound	**AWQSGV**	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U
2,3,4,6-Tetrachlorophenol	NS	10 U	10 U
2,4,5-Trichlorophenol	NS	10 U	10 U
2,4,6-Trichlorophenol	NS	10 U	10 U
2,4-Dichlorophenol	5	10 U	10 U
2,4-Dimethylphenol	50	10 U	5.1 J
2,4-Dinitrophenol	10	20 U	20 U
2,4-Dinitrotoluene	5	2 U	2 U
2,6-Dinitrotoluene	5	2 U	2 U
2-Chloronaphthalene	10	10 U	10 U
2-Chlorophenol	NS	10 U	10 U
2-Methylnaphthalene	NS	10 U	29
2-Methylphenol (O-Cresol)	NS	10 U	10 U
2-Nitroaniline	5	10 U	10 U
2-Nitrophenol	NS	10 U	10 U
3,3'-Dichlorobenzidine	5	10 U	10 U
3-Nitroaniline	5	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	20 U	20 U
4-Bromophenyl Phenyl Ether	NS	10 U	10 U
4-Chloro-3-Methylphenol	NS	10 U	10 U
4-Chloroaniline	5	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	10 U	10 U
4-Methylphenol (P-Cresol)	NS	10 U	1.5 J
4-Nitroaniline	5	10 U	10 U
4-Nitrophenol	NS	20 U	20 U
Acenaphthene	20	2.1 J	4.9 J
Acenaphthylene	NS	10 U	10 U
Acetophenone	NS	10 U	46
Anthracene	50	10 U	10 U
Atrazine	7.5	2 U	2 U
Benzaldehyde	NS	10 U	89
Benzo(a)Anthracene	0.002	1 U	1 U
Benzo(a)Pyrene	ND	1 U	1 U
Benzo(b)Fluoranthene	0.002	2 U	2 U
Benzo(g,h,i)Perylene	NS	10 U	10 U
Benzo(k)Fluoranthene	0.002	1 U	1 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	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	2 U	2 U
Caprolactam	NS	10 U	10 U
Carbazole	NS	10 U	1.1 J
Chrysene	0.002	2 U	2 U
Dibenz(a,h)Anthracene	NS	1 U	1 U
Dibenzofuran	NS	10 U	2 J
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	2.2 J	2.6 J
Hexachlorobenzene	0.04	1 U	1 U
Hexachlorobutadiene	0.5	1 U	1 U
Hexachlorocyclopentadiene	5	10 U	10 U
Hexachloroethane	5	2 U	2 U
Indeno(1,2,3-c,d)Pyrene	0.002	2 U	2 U
Isophorone	50	10 U	10 U
Naphthalene	**10**	1.9 J	**78**
Nitrobenzene	0.4	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	1 U	1 U
N-Nitrosodiphenylamine	50	10 U	10 U
Pentachlorophenol	NS	20 U	20 U
Phenanthrene	50	1.9 J	2.5 J
Phenol	1	10 U	0.83 J
Pyrene	50	10 U	10 U

Table 7

Soil Vapor and Ambient Air Analytical Results of VOCs

Table 7
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Vapor and Ambient Air Analytical Results of VOCs

Sample ID	SV-02_20191004	SV-02_20191004	SV-03_20191004
Lab Sample ID	200-50882-1	200-50882-1	200-50882-2
Date Sampled	10/4/2019 2:05:00 PM	10/4/2019 2:05:00 PM	10/4/2019 1:42:00 PM
Unit	µg/m^3	µg/m^3	µg/m^3
Dilution Factor	1	20	1
Compound	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	1.1 U	NT	1.1 U
1,1,2,2-Tetrachloroethane	1.4 U	NT	1.4 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.31 J	NT	0.44 J
1,1,2-Trichloroethane	1.1 U	NT	1.1 U
1,1-Dichloroethane	0.81 U	NT	0.81 U
1,1-Dichloroethene	0.14 U	NT	0.14 U
1,2,4-Trichlorobenzene	3.7 U	NT	3.7 U
1,2,4-Trimethylbenzene	11	NT	11
1,2-Dibromoethane (Ethylene Dibromide)	1.5 U	NT	1.5 U
1,2-Dichlorobenzene	1.2 U	NT	1.2 U
1,2-Dichloroethane	0.81 U	NT	0.81 U
1,2-Dichloropropane	0.92 U	NT	0.92 U
1,2-Dichlorotetrafluoroethane	1.4 U	NT	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	7.8	NT	8.9
1,3-Butadiene	2.5	NT	0.75
1,3-Dichlorobenzene	0.97 J	NT	1.2 U
1,4-Dichlorobenzene	1.2 U	NT	1.2 U
2,2,4-Trimethylpentane	28	NT	36
2-Chlorotoluene	1 U	NT	1 U
2-Hexanone	6.2	NT	1.9 J
4-Ethyltoluene	7.5	NT	6.2
Acetone	NR	490 D	NR
Allyl Chloride (3-Chloropropene)	1.6 U	NT	1.6 U
Benzene	7.3	NT	3.6
Benzyl Chloride	1 U	NT	1 U
Bromodichloromethane	1.3 U	NT	1.3 U
Bromoform	2.1 U	NT	2.1 U
Bromomethane	0.78 U	NT	0.78 U
Carbon Disulfide	3.2	NT	8.4
Carbon Tetrachloride	1.1	NT	0.37
Chlorobenzene	0.92 U	NT	0.92 U
Chloroethane	1.3 U	NT	1.3 U
Chloroform	8.8	NT	41
Chloromethane	0.81 J	NT	1 U
Cis-1,2-Dichloroethylene	0.2 U	NT	0.2 U
Cis-1,3-Dichloropropene	0.91 U	NT	0.91 U
Cyclohexane	6.5	NT	4.8
Cymene	1 J	NT	1.1
Dibromochloromethane	1.7 U	NT	1.7 U
Dichlorodifluoromethane	1.3 J	NT	1.7 J
Ethylbenzene	6.5	NT	3.6
Hexachlorobutadiene	2.1 U	NT	2.1 U
Isopropanol	12 U	NT	12 U
Isopropylbenzene (Cumene)	4.5	NT	1.3
M,P-Xylenes	27	NT	15
Methyl Ethyl Ketone (2-Butanone)	16	NT	6.4
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	6.6	NT	2.6
Methylene Chloride	0.95 J	NT	1.7 U
Naphthalene	2.6 U	NT	2.6 U
N-Butylbenzene	0.72 J	NT	0.79 J
N-Heptane	21	NT	9.7
N-Hexane	11	NT	18
N-Propylbenzene	2.8	NT	1.8
O-Xylene (1,2-Dimethylbenzene)	31	NT	14
Sec-Butylbenzene	3.1	NT	1.9
Styrene	0.85 U	NT	0.57 J
T-Butylbenzene	1.1 U	NT	1.1 U
Tert-Butyl Alcohol	25	NT	5.7 J
Tert-Butyl Methyl Ether	0.63 J	NT	0.83
Tetrachloroethylene (PCE)	19	NT	24
Tetrahydrofuran	15 U	NT	15 U
Toluene	24	NT	12
Trans-1,2-Dichloroethene	0.79 U	NT	0.79 U
Trans-1,3-Dichloropropene	0.91 U	NT	0.91 U
Trichloroethylene (TCE)	0.19 U	NT	0.65
Trichlorofluoromethane	1.2	NT	1.2
Vinyl Bromide	0.87 U	NT	0.87 U
Vinyl Chloride	0.2 U	NT	0.2 U

Table 7
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Vapor and Ambient Air Analytical Results of VOCs

Sample ID	SV-03_20191004	SV-04_20191004	SV-05_20191004
Lab Sample ID	200-50882-2	200-50882-3	200-50882-4
Date Sampled	10/4/2019 1:42:00 PM	10/4/2019 1:02:00 PM	10/4/2019 1:11:00 PM
Unit	µg/m^3	µg/m^3	µg/m^3
Dilution Factor	10	4	1
Compound	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	NT	1.8 J	1 J
1,1,2,2-Tetrachloroethane	NT	5.5 U	1.4 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NT	6.1 U	0.45 J
1,1,2-Trichloroethane	NT	4.4 U	1.1 U
1,1-Dichloroethane	NT	3.2 U	0.81 U
1,1-Dichloroethene	NT	0.56 U	0.14 U
1,2,4-Trichlorobenzene	NT	15 U	3.7 U
1,2,4-Trimethylbenzene	NT	4.4	35
1,2-Dibromoethane (Ethylene Dibromide)	NT	6.1 U	1.5 U
1,2-Dichlorobenzene	NT	4.8 U	1.2 U
1,2-Dichloroethane	NT	3.2 U	0.81 U
1,2-Dichloropropane	NT	3.7 U	0.92 U
1,2-Dichlorotetrafluoroethane	NT	5.6 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	NT	4.3	48
1,3-Butadiene	NT	26	1.6
1,3-Dichlorobenzene	NT	5.1	3.8
1,4-Dichlorobenzene	NT	4.8 U	1.2 U
2,2,4-Trimethylpentane	NT	130	17
2-Chlorotoluene	NT	4.1 U	1 U
2-Hexanone	NT	8.2 U	2 U
4-Ethyltoluene	NT	3.7 J	52
Acetone	210 D	170	NR
Allyl Chloride (3-Chloropropene)	NT	6.3 U	1.6 U
Benzene	NT	17	9.5
Benzyl Chloride	NT	4.1 U	0.97 J
Bromodichloromethane	NT	5.4 U	1.3 U
Bromoform	NT	8.3 U	2.1 U
Bromomethane	NT	3.1 U	0.78 U
Carbon Disulfide	NT	38	42
Carbon Tetrachloride	NT	0.88 U	1.7
Chlorobenzene	NT	3.7 U	0.92 U
Chloroethane	NT	5.3 U	1.3 U
Chloroform	NT	9.4	NR
Chloromethane	NT	4.1 U	1 U
Cis-1,2-Dichloroethylene	NT	0.8 U	2
Cis-1,3-Dichloropropene	NT	3.6 U	0.91 U
Cyclohexane	NT	27	69
Cymene	NT	4.4 U	5.5
Dibromochloromethane	NT	6.8 U	1.7 U
Dichlorodifluoromethane	NT	9.9 U	3.4
Ethylbenzene	NT	6.4	91
Hexachlorobutadiene	NT	8.5 U	2.1 U
Isopropanol	NT	49 U	5.5 J
Isopropylbenzene (Cumene)	NT	6	66
M,P-Xylenes	NT	26	NR
Methyl Ethyl Ketone (2-Butanone)	NT	15	12
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NT	22	16
Methylene Chloride	NT	6.9 U	26
Naphthalene	NT	10 U	2.6 U
N-Butylbenzene	NT	4.4 U	1.1
N-Heptane	NT	37	130
N-Hexane	NT	61	18
N-Propylbenzene	NT	2.2 J	26
O-Xylene (1,2-Dimethylbenzene)	NT	33	NR
Sec-Butylbenzene	NT	1.9 J	32
Styrene	NT	3.4 U	0.85 U
T-Butylbenzene	NT	4.4 U	1.3
Tert-Butyl Alcohol	NT	57 J	53
Tert-Butyl Methyl Ether	NT	21	7.4
Tetrachloroethylene (PCE)	NT	42	85
Tetrahydrofuran	NT	59 U	15 U
Toluene	NT	15	73
Trans-1,2-Dichloroethene	NT	3.2 U	0.79 U
Trans-1,3-Dichloropropene	NT	3.6 U	0.91 U
Trichloroethylene (TCE)	NT	0.75 U	0.19 U
Trichlorofluoromethane	NT	1.4 J	2.1
Vinyl Bromide	NT	3.5 U	0.87 U
Vinyl Chloride	NT	0.8 U	0.2 U

Table 7
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Soil Vapor and Ambient Air Analytical Results of VOCs

Sample ID	SV-05_20191004	AA-01_20191004
Lab Sample ID	200-50882-4	200-50882-5
Date Sampled	10/4/2019 1:11:00 PM	10/4/2019 1:05:00 PM
Unit	µg/m^3	µg/m^3
Dilution Factor	4	1
Compound	CONC Q	CONC Q
1,1,1-Trichloroethane	NT	1.1 U
1,1,2,2-Tetrachloroethane	NT	1.4 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NT	0.37 J
1,1,2-Trichloroethane	NT	1.1 U
1,1-Dichloroethane	NT	0.81 U
1,1-Dichloroethene	NT	0.14 U
1,2,4-Trichlorobenzene	NT	3.7 U
1,2,4-Trimethylbenzene	NT	0.58 J
1,2-Dibromoethane (Ethylene Dibromide)	NT	1.5 U
1,2-Dichlorobenzene	NT	1.2 U
1,2-Dichloroethane	NT	0.81 U
1,2-Dichloropropane	NT	0.92 U
1,2-Dichlorotetrafluoroethane	NT	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	NT	0.98 U
1,3-Butadiene	NT	0.44 U
1,3-Dichlorobenzene	NT	1.2 U
1,4-Dichlorobenzene	NT	1.2 U
2,2,4-Trimethylpentane	NT	1.9
2-Chlorotoluene	NT	1 U
2-Hexanone	NT	2 U
4-Ethyltoluene	NT	0.98 U
Acetone	210 D	10 J
Allyl Chloride (3-Chloropropene)	NT	1.6 U
Benzene	NT	1.1
Benzyl Chloride	NT	1 U
Bromodichloromethane	NT	1.3 U
Bromoform	NT	2.1 U
Bromomethane	NT	0.78 U
Carbon Disulfide	NT	1.6 U
Carbon Tetrachloride	NT	0.46
Chlorobenzene	NT	0.92 U
Chloroethane	NT	1.3 U
Chloroform	630 D	0.31 J
Chloromethane	NT	0.92 J
Cis-1,2-Dichloroethylene	NT	0.2 U
Cis-1,3-Dichloropropene	NT	0.91 U
Cyclohexane	NT	0.88
Cymene	NT	1.1 U
Dibromochloromethane	NT	1.7 U
Dichlorodifluoromethane	NT	2.5
Ethylbenzene	NT	0.58 J
Hexachlorobutadiene	NT	2.1 U
Isopropanol	NT	12 U
Isopropylbenzene (Cumene)	NT	0.98 U
M,P-Xylenes	430 D	2.1 J
Methyl Ethyl Ketone (2-Butanone)	NT	1.5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NT	2 U
Methylene Chloride	NT	0.8 J
Naphthalene	NT	2.6 U
N-Butylbenzene	NT	1.1 U
N-Heptane	NT	0.92
N-Hexane	NT	2.3
N-Propylbenzene	NT	0.98 U
O-Xylene (1,2-Dimethylbenzene)	380 D	0.8 J
Sec-Butylbenzene	NT	1.1 U
Styrene	NT	0.85 U
T-Butylbenzene	NT	1.1 U
Tert-Butyl Alcohol	NT	15 U
Tert-Butyl Methyl Ether	NT	0.72 U
Tetrachloroethylene (PCE)	NT	1.4
Tetrahydrofuran	NT	15 U
Toluene	NT	3.6
Trans-1,2-Dichloroethene	NT	0.79 U
Trans-1,3-Dichloropropene	NT	0.91 U
Trichloroethylene (TCE)	NT	0.19 U
Trichlorofluoromethane	NT	1.2
Vinyl Bromide	NT	0.87 U
Vinyl Chloride	NT	0.2 U

Tables 1-7
126 Bruckner Boulevard
Bronx, NY
Subsurface (Phase II) Investigation
Notes

GENERAL

D : Indicates an identified compound in an analysis that has been diluted.

J : The reported value is estimated

ND : The standard is a non-detectable concentration by the approved analytical method.

NR : Not reported.

NS : No standard.

NT : Not tested.

P : This flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis.

T : Indicates that a quality control parameter has exceeded laboratory limits.

U : Indicates that the compound was analyzed for, but not detected.

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

µg/L : micrograms per Liter

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

STANDARDS

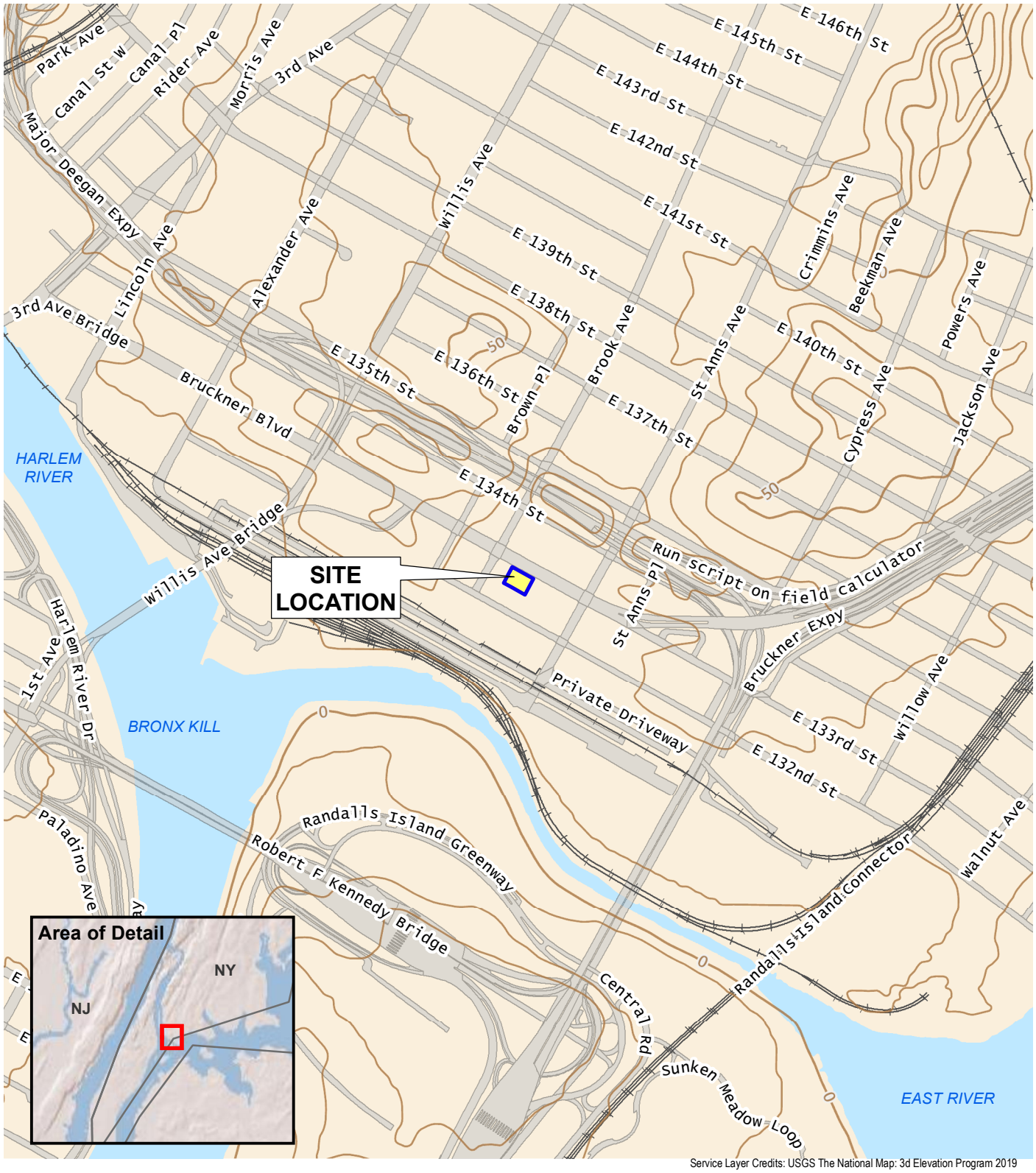
Part 375 Soil Cleanup Objectives : Soil Cleanup Objectives listed in NYSDEC (New York State Department of Environmental Conservation) "Part 375" Regulations (6 NYCRR Part 375).

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

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

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font and gray shading.

FIGURES



AKRF
440 Park Avenue South, New York, NY 10016

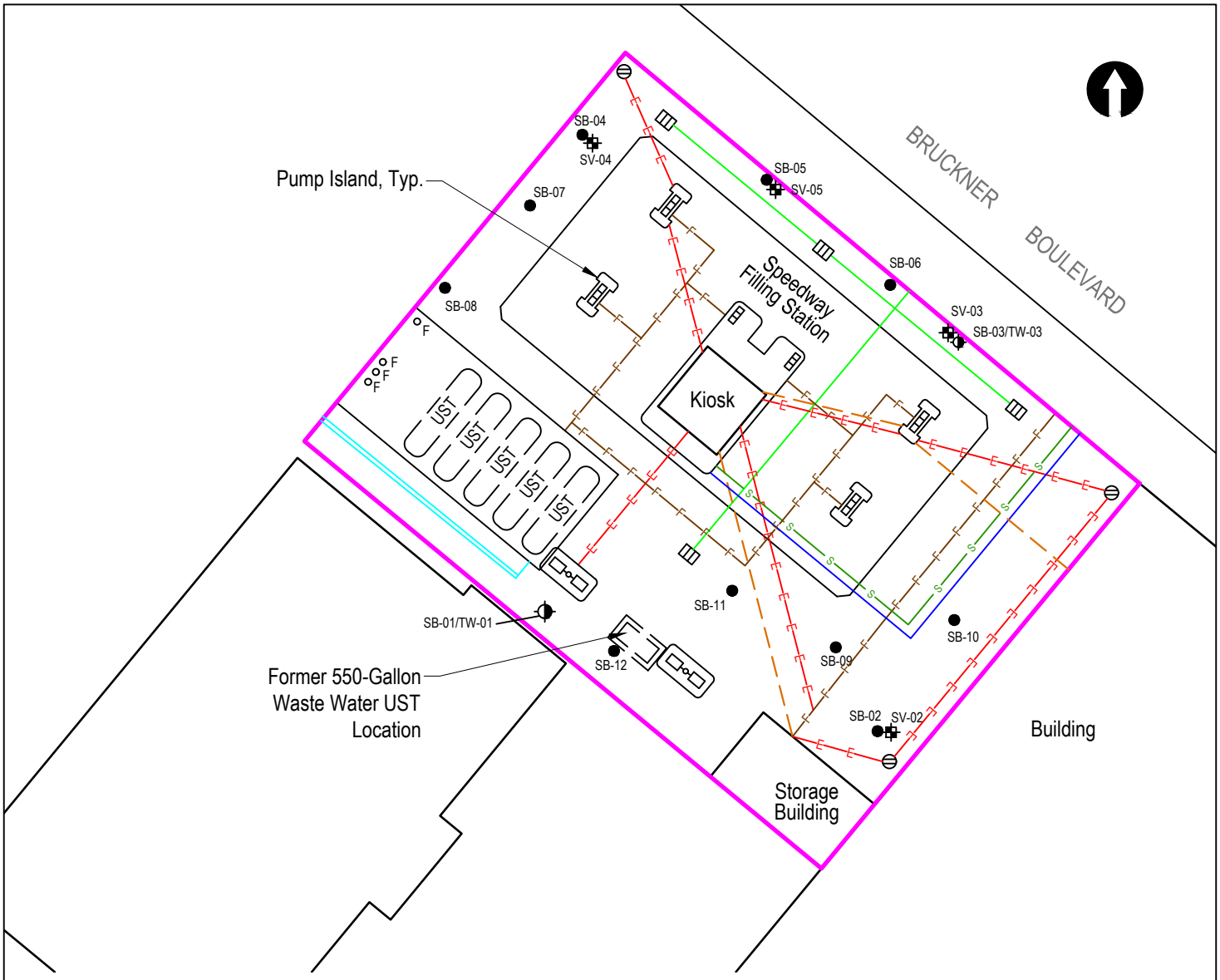
126 Brucker Boulevard
Bronx, New York

SITE LOCATION

DATE
10/14/2019

PROJECT NO.
190282

FIGURE
1



LEGEND

- PROJECT SITE BOUNDARY
- SOIL BORING LOCATION
- SOIL BORING/ TEMPORARY WELL LOCATION
- SOIL VAPOR POINT LOCATION
- °F REMOTE FILL
- UST UNDERGROUND STORAGE TANK
- COMMUNICATIONS
- E ELECTRIC
- WATER
- F FUEL PIPING
- STORM DRAINAGE
- S SANITARY
- VENT

NOTES:
1. A GPR SURVEY WAS PERFORMED BY ENVIROPROBE ON 9/05/2019. UTILITY LOCATIONS WERE APPROXIMATED BASED ON THE ENVIROPROBE GEOPHYSICAL INVESTIGATION REPORT, DATED 9/05/2019.

2. SAMPLE LOCATIONS WERE POSITIONED A MINIMUM OF 5 FEET FROM MARKED PRODUCT/UTILITY LINES AND 10 FEET FROM UST SYSTEM ZONE AS DEFINED IN SPEEDWAY LLC ENVIRONMENTAL PRE-CLEARING AND DRILLING STANDARDS.

3. SOIL BORING LOCATIONS WERE NOT SURVEYED AND WERE APPROXIMATED BASED ON BENCHMARK MEASUREMENTS.

0 15 30 60
SCALE IN FEET

Map Source:
Envirotrac Environmental Services, "Site Map", Dated January 21, 2015.

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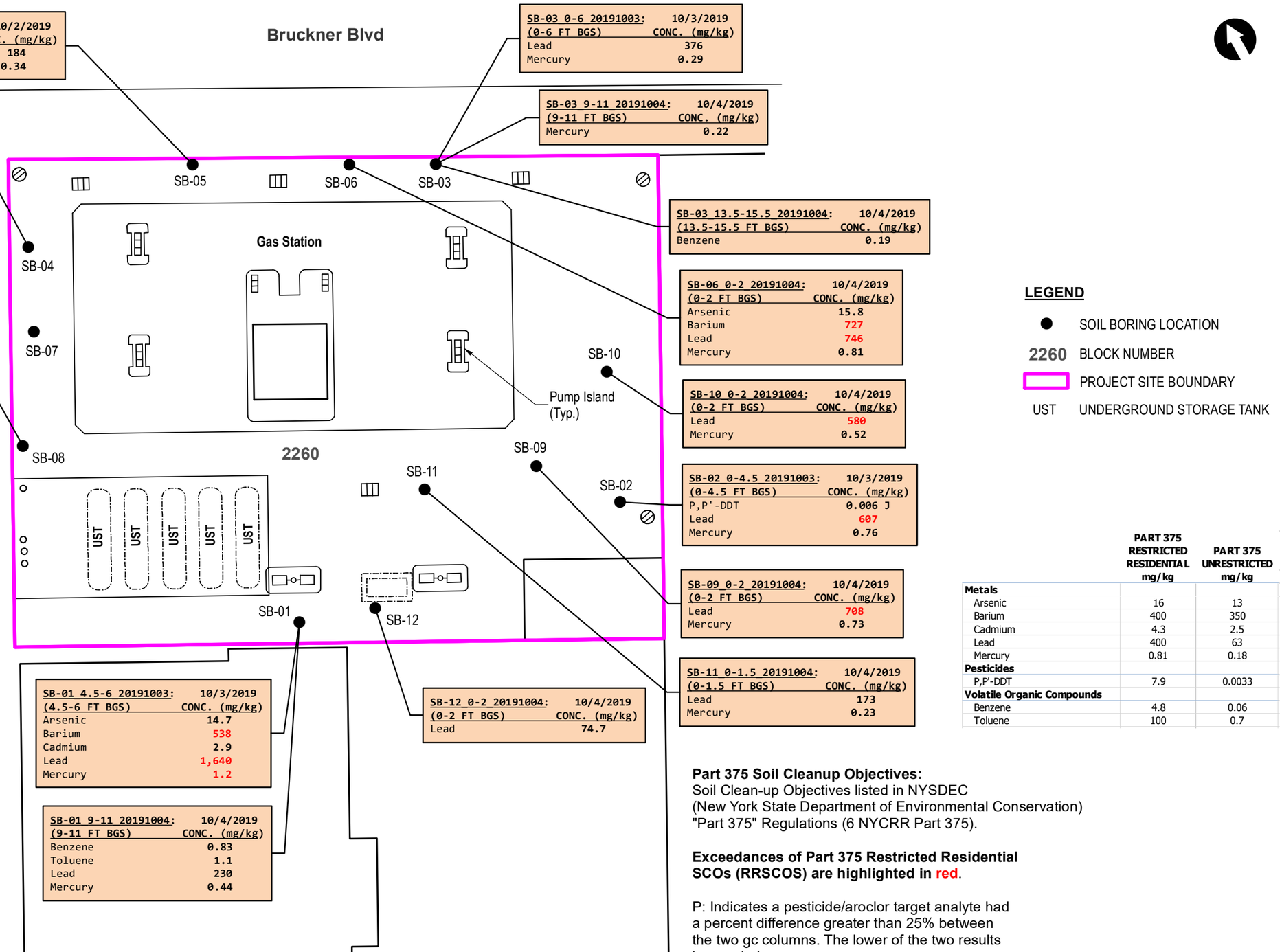
126 Bruckner Boulevard
Bronx, New York

SITE PLAN AND SAMPLE LOCATIONS

DATE
10/29/2019

PROJECT NO.
190282

FIGURE
2



LEGEND

- SOIL BORING LOCATION
- 2260 BLOCK NUMBER
- PROJECT SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK

	PART 375 RESTRICTED RESIDENTIAL mg/kg	PART 375 UNRESTRICTED mg/kg
Metals		
Arsenic	16	13
Barium	400	350
Cadmium	4.3	2.5
Lead	400	63
Mercury	0.81	0.18
Pesticides		
P,P'-DDT	7.9	0.0033
Volatile Organic Compounds		
Benzene	4.8	0.06
Toluene	100	0.7

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

Exceedances of Part 375 Restricted Residential SCOs (RRSCOS) are highlighted in red.

P: Indicates a pesticide/aroclor target analyte had a percent difference greater than 25% between the two gc columns. The lower of the two results is reported.

J: The reported value is estimated

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

0 20 40
SCALE IN FEET

Map Source:
Envirotrac Environmental Services, "Site Map", Dated January 21, 2015.

AKRF
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SOIL SAMPLE CONCENTRATIONS ABOVE NYSDEC RRSCOs

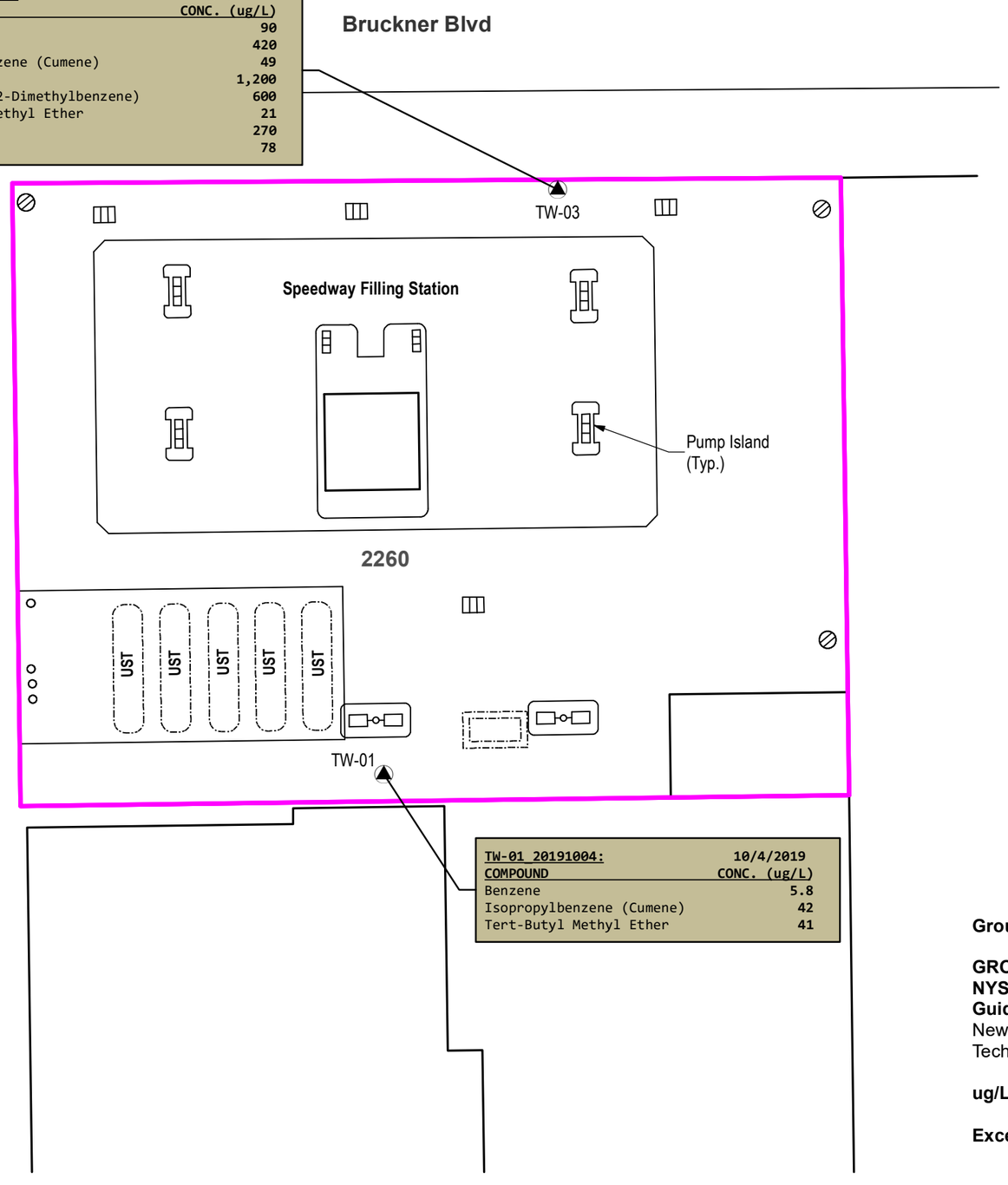
126 Brucker Boulevard
Bronx, New York

DATE
10/29/2019

PROJECT NO.
190282

FIGURE
3

TW-03 20191004:	10/4/2019
COMPOUND	CONC. (ug/L)
Benzene	90
Ethylbenzene	420
Isopropylbenzene (Cumene)	49
M,P-Xylenes	1,200
O-Xylene (1,2-Dimethylbenzene)	600
Tert-Butyl Methyl Ether	21
Toluene	270
Naphthalene	78



TW-01 20191004:	10/4/2019
COMPOUND	CONC. (ug/L)
Benzene	5.8
Isopropylbenzene (Cumene)	42
Tert-Butyl Methyl Ether	41

LEGEND

- TEMPORARY WELL LOCATION
- 2260 BLOCK NUMBER
- PROJECT SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK

	NYSDEC AWQSGVs µg/L
Volatile Organic Compounds	
Benzene	1
Ethylbenzene	5
Isopropylbenzene (Cumene)	5
M,P-Xylenes	5
Naphthalene	10
O-Xylene (1,2-Dimethylbenzene)	5
Tert-Butyl Methyl Ether	10
Toluene	5

Groundwater Samples above NYSDEC AWQSGVs:

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

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

Exceedances of NYSDEC AWQSGVs are shown in bold font.

Map Source:
Envirotrac Environmental Services, "Site Map", Dated January 21, 2015.

0 20 40
SCALE IN FEET

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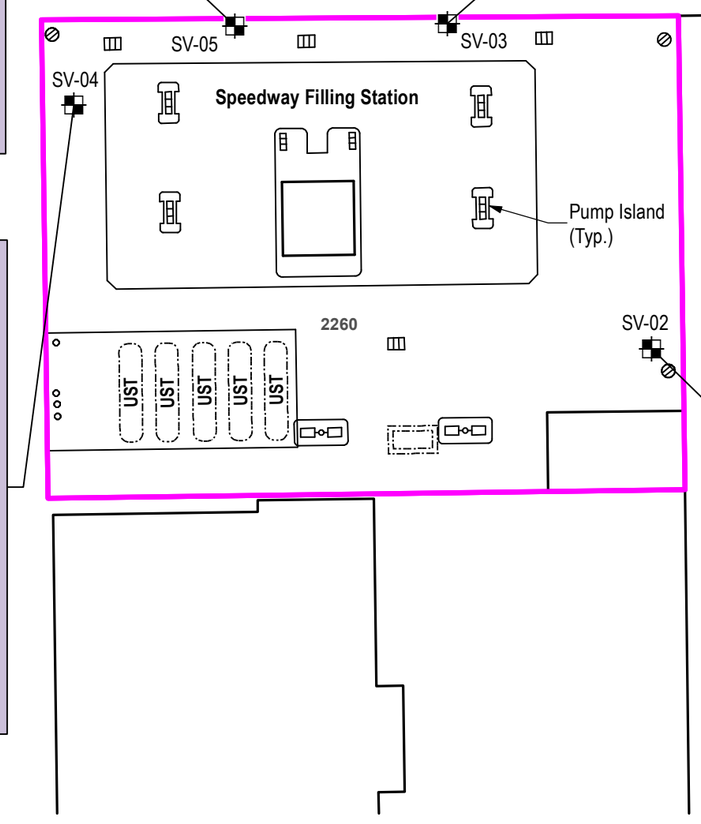
126 Brucker Boulevard
Bronx, New York

GROUNDWATER SAMPLE CONCENTRATIONS ABOVE NYSDEC AWQSGVs

DATE
10/29/2019
PROJECT NO.
190282
FIGURE
4

SV-05_20191004:	10/4/2019
COMPOUND	CONC. (ug/m3)
1,1,1-Trichloroethane	1 J
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.45 J
1,2,4-Trimethylbenzene	35
1,3-Butadiene	1.6
1,3-Dichlorobenzene	3.8
1,3,5-Trimethylbenzene (Mesitylene)	48
2,2,4-Trimethylpentane	17
4-Ethyltoluene	52
Acetone	210 D
Benzene	9.5
Benzyl Chloride	0.97 J
Carbon Disulfide	42
Carbon Tetrachloride	1.7
Chloroform	630 D
Cis-1,2-Dichloroethylene	2
Cyclohexane	69
Cymene	5.5
Dichlorodifluoromethane	3.4
Ethylbenzene	91
Isopropanol	5.5 J
Isopropylbenzene (Cumene)	66
M,P-Xylenes	430 D
Methyl Ethyl Ketone (2-Butanone)	12
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	16
Methylene Chloride	26
N-Butylbenzene	1.1
N-Heptane	130
N-Hexane	18
N-Propylbenzene	26
O-Xylene (1,2-Dimethylbenzene)	380 D
Sec-Butylbenzene	32
T-Butylbenzene	1.3
Tert-Butyl Alcohol	53
Tert-Butyl Methyl Ether	7.4
Tetrachloroethylene (PCE)	85
Toluene	73
Trichlorofluoromethane	2.1

SV-04_20191004:	10/4/2019
COMPOUND	CONC. (ug/m3)
1,1,1-Trichloroethane	1.8 J
1,2,4-Trimethylbenzene	4.4
1,3-Butadiene	26
1,3-Dichlorobenzene	5.1
1,3,5-Trimethylbenzene (Mesitylene)	4.3
2,2,4-Trimethylpentane	130
4-Ethyltoluene	3.7 J
Acetone	170
Benzene	17
Carbon Disulfide	38
Chloroform	9.4
Cyclohexane	27
Ethylbenzene	6.4
Isopropylbenzene (Cumene)	6
M,P-Xylenes	26
Methyl Ethyl Ketone (2-Butanone)	15
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	22
N-Heptane	37
N-Hexane	61
N-Propylbenzene	2.2 J
O-Xylene (1,2-Dimethylbenzene)	33
Sec-Butylbenzene	1.9 J
Tert-Butyl Alcohol	57 J
Tert-Butyl Methyl Ether	21
Tetrachloroethylene (PCE)	42
Toluene	15
Trichlorofluoromethane	1.4 J



SV-03_20191004:	10/4/2019
COMPOUND	CONC. (ug/m3)
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.44 J
1,2,4-Trimethylbenzene	11
1,3-Butadiene	0.75
1,3,5-Trimethylbenzene (Mesitylene)	8.9
2-Hexanone	1.9 J
2,2,4-Trimethylpentane	36
4-Ethyltoluene	6.2
Acetone	210 D
Benzene	3.6
Carbon Disulfide	8.4
Carbon Tetrachloride	0.37
Chloroform	41
Cyclohexane	4.8
Cymene	1.1
Dichlorodifluoromethane	1.7 J
Ethylbenzene	3.6
Isopropylbenzene (Cumene)	1.3
M,P-Xylenes	15
Methyl Ethyl Ketone (2-Butanone)	6.4
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.6
N-Butylbenzene	0.79 J
N-Heptane	9.7
N-Hexane	18
N-Propylbenzene	1.8
O-Xylene (1,2-Dimethylbenzene)	14
Sec-Butylbenzene	1.9
Styrene	0.57 J
Tert-Butyl Alcohol	5.7 J
Tert-Butyl Methyl Ether	0.83
Tetrachloroethylene (PCE)	24
Toluene	12
Trichloroethylene (TCE)	0.65
Trichlorofluoromethane	1.2

SV-02_20191004:	10/4/2019
COMPOUND	CONC. (ug/m3)
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.31 J
1,2,4-Trimethylbenzene	11
1,3-Butadiene	2.5
1,3-Dichlorobenzene	0.97 J
1,3,5-Trimethylbenzene (Mesitylene)	7.8
2-Hexanone	6.2
2,2,4-Trimethylpentane	28
4-Ethyltoluene	7.5
Acetone	490 D
Benzene	7.3
Carbon Disulfide	3.2
Carbon Tetrachloride	1.1
Chloroform	8.8
Chloromethane	0.81 J
Cyclohexane	6.5
Cymene	1 J
Dichlorodifluoromethane	1.3 J
Ethylbenzene	6.5
Isopropylbenzene (Cumene)	4.5
M,P-Xylenes	27
Methyl Ethyl Ketone (2-Butanone)	16
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	6.6
Methylene Chloride	0.95 J
N-Butylbenzene	0.72 J
N-Heptane	21
N-Hexane	11
N-Propylbenzene	2.8
O-Xylene (1,2-Dimethylbenzene)	31
Sec-Butylbenzene	3.1
Tert-Butyl Alcohol	25
Tert-Butyl Methyl Ether	0.63 J
Tetrachloroethylene (PCE)	19
Toluene	24
Trichlorofluoromethane	1.2

LEGEND

- SOIL VAPOR SAMPLE LOCATION
- 2260 BLOCK NUMBER
- PROJECT SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK

SOIL VAPOR

µg/m³ - micrograms per cubic meter

D: Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.

J: The reported value is estimated

Map Source:
Envirotrac Environmental Services, "Site Map", Dated January 21, 2015.

0 30 60
SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

126 Brucker Boulevard
Bronx, New York

SOIL VAPOR SAMPLE CONCENTRATIONS

DATE
10/29/2019
PROJECT NO.
190282
FIGURE
5