

**2016-2040 WESTCHESTER AVENUE
BRONX, NEW YORK**

Remedial Investigation Report

NYC VCP Site Number: 13CVCP096X

Prepared for:

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

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

CERTIFICATION

I, Mark E. Robbins, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 2016-2040 Westchester Avenue, (NYC BCP Site No. 13CVCP096X. I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Mark E. Robbins

November 15, 2012

Qualified Environmental Professional

Date

Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance. The RI summarizes the data collected during the most recent RI work during June 2012 and also the previous environmental and geotechnical investigations; August 2002 Tank Closure at 2030-2036 Westchester Avenue, April 2009 Geotechnical Evaluation at 2016-2040 Westchester Avenue and September 2009 Phase II investigation at 2016-2040 Westchester Avenue.

Site Location and Current Usage

The Site is located at 2016-2040 Westchester Avenue in the Parkchester section in Bronx, New York and is identified as Block 3805 and Lots 11, 13, 14, 15, 17, 20, 67 and 169 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 50,544 square feet and is bounded by Westchester Avenue to the north, 4-story residential building and 2-story garage building to the west, multiple 2-story residential buildings to the south and 1-story commercial building to the east. A map of the site boundary is shown in **Figure 2**.

Lot 169 is currently developed with a 1-story commercial building that is currently partially converted into an office area. Lot 11 is developed with a 1-story auto repair garage. Lots 13, 14, and 15 are each developed with a vacant 2-story residential building with a basement. Lot 17 is developed with a 1-story garage utilized as a storage unit. Lot 20 is currently utilized as an asphalt paved parking lot.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of 7-story mixed use residential, commercial and community building with a partial cellar and adjoining ground level parking. The footprint of the building will be approximately 20,043 square feet.

This new development will consist of 134 units low income affordable rental apartments, a ground floor retail space of 13,500 square feet, and community facility space of 850 square feet and 91 off-street parking spaces. The partial cellar will be approximately 4,672 square feet. The

partial cellar will be located in the northeastern portions of Lot 169 and Lot 11 and will consist of a storage area.

The depth of cellar excavation will be approximately 11 feet 7 inches below grade and the cellar footings will be approximately 14 feet below grade. The building will be identified as Park West Apartments, 2026 Westchester Avenue, Bronx, New York.

Open spaces, consisting of ground level asphalt paved parking, will be located in the rear portion of Lots 13, 14, 15, 17 and 20 of the Site and also throughout Lot 67. Landscaped strips will be present along the southeastern boundary of Lot 20 and southwestern boundary of Lot 169.

Summary of Past Uses of Site

Based upon the review of the Fire Insurance Maps and Regulatory Agency documents from the Phase I Environmental Site Assessment (ESA) Reports prepared by Ecosystem. Strategies, Inc, in August 2002 and by M.D. London Associates., LLC., in May 2006, a Site history was established. Historically, the Site was occupied by mixed use residential and commercial facilities; residential buildings at Lot 169 between 1898 and 1929 and at Lots 13, 14 and 15 between 1908 and 2006; auto repair facilities at Lot 11 during 1950 and between 1992 and 2006 and at Lot 17 between 1988 and 2006; filling stations at Lot 11 between 1950 and 1991 and at Lot 17 between 1977 and 1986; used car sales at Lot 20 between 1977 and 2006, auto parking at Lot 169 between 1977 to 1996 and a Laundromat with no dry cleaning activities at Lot 169 during 2006.

Summary of the Work Performed during Previous Investigations

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings in March 2006.
2. Performed of a Ground Penetrating Radar (GPR) survey throughout all open areas at the Site in September 2009;
3. Collected end point samples around the closed/removed six (6) 550-gallon gasoline USTs at Lot 13, 14 and 15 in accordance to NYSDEC DER-10 in August 2002. These included four (4) sidewall endpoints samples obtained at 6 feet bgs and one (1) bottom endpoint sample collected at 6 to 8 feet bgs.

4. Installed nine (9) soil borings across the entire project Site in September 2009, and collected eighteen (18) soil samples for chemical analysis from the soil borings to evaluate soil quality; these included nine (9) shallow soil samples from zero to 2 feet below grade (bgs), eight (8) deep dry samples from 4 to 6 feet bgs and one (1) deep saturated soil sample from 14 to 16 feet bgs.
5. Installed four (4) groundwater monitoring wells throughout the Site in September 2009 to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;
6. Installed five (5) soil vapor probes throughout the Site in June 2012 and collected five (5) samples for chemical analysis;
7. Preparation of RIR based upon results of all investigations and tank closure activities occurred at the Site.

Summary of Environmental Findings

1. Elevation of the property is approximately 32 feet.
2. Depth to groundwater ranges from 7.78 to 9.9 feet at the Site.
3. Groundwater flow is generally from east-southeast to west-northwest beneath the Site.
4. Depth to bedrock ranges from 10 to 35 feet at the Site.
5. The stratigraphy of the site, from the surface down, consists of a historic fill layer ranging in thickness from zero to less than 5 feet (brown coarse to fine grained sand with varying amounts of silt and gravel). This layer is underlain by a sand layer, which extends from 5 feet below grade to variable depths ranging between 10 to 20 feet bgs (grey coarse to fine sand with silt, clay and gravel). Till and Decomposed Rock layer lies below the sand layer down to depths ranging between 10 to 35 feet bgs (grey coarse to fine sand with silt, clay, gravel and decomposed rock). Bedrock is encountered between 10 and 50 feet bgs (grey gneiss bedrock).
6. PCBs and Pesticides were not detected in any of soil samples. Trace concentrations of several gasoline related VOCs were detected in shallow as well as deeper soils with a

maximum total concentration of less than 1 ppm. All detected VOCs were below Track 1 Unrestricted Soil Cleanup Objectives (SCOs). PCE and TCE were not detected in soil sample. Six SVOCs including Benzo(a)Anthracene (max. of 38.6 ppm), Benzo(a)Pyrene (max. of 28.7 ppm), Benzo(b)Fluoranthene (max. of 30.8 ppm), Benzo(k)Fluoranthene (max. of 13.9 ppm), Chrysene (max. of 28 ppm), and Indeno(1,2,3-cd)Pyrene (max. of 16 ppm) were detected at concentrations in excess of Track 2 Residential SCOs in shallow soils. SVOCs in deep soil samples were all below Unrestricted Use Track 1 SCOs. The total SVOCs ranged from none detect to less than 50 ppm in all borings except for one location which detected SVOCs at a maximum concentration of 452 ppm (in the vicinity of the former location of the 10 gasoline USTs at Lot 169). Metals including chromium (maximum of 40 ppm), copper (maximum of 61 ppm), nickel (maximum of 75 ppm), lead (maximum of 165 ppm) and zinc (maximum of 260 ppm) exceeded Unrestricted Use Track 1 SCOs and of these, chromium also exceeded Track 2 Residential SCOs in shallow and deep soils.

7. Groundwater samples collected during the RI showed no Pesticides or PCBs detected in any of the groundwater samples collected at the Site. One VOC Methyl-Tert-Butyl-Ether was detected in one groundwater sample at concentration (25.4 $\mu\text{g/L}$), which exceeded NYSDEC Part 703.5 Groundwater Quality Standards (GQS). One SVOC 2,6-Dinitrotoluene was detected in two groundwater samples (maximum of 13.2 $\mu\text{g/L}$) above GQS. Methyl-Tert-Butyl-Ether and 2,6-Dinitrotoluene were not detected in any of the soil samples collected at the Site. Dissolved metals including magnesium, manganese, selenium and sodium were detected above GQS and are associated with area-wide impacts from brackish water.
8. Soil vapor samples collected during the RI showed a variety of petroleum VOCs detected throughout the Site. PCE and TCE were not detected in any soil vapor samples. The VOC including benzene (37 to 270 $\mu\text{g/m}^3$), carbon disulfide (25 to 180 $\mu\text{g/m}^3$), toluene (69 to 320 $\mu\text{g/m}^3$), and xylenes (130 to 300 $\mu\text{g/m}^3$) were most abundant compound observed in soil vapors.

1. REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Idle, LLC. has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.92-acre (40,300 square feet) site located at 2016-2040 Westchester Avenue in Parkchester section of Bronx, New York. Mixed commercial/ residential/community use is proposed for the property. RI activities were performed in accordance with a Restrictive Declaration #07DEPTECH165X for Hazardous Materials by NYCDEP as a part of the proposed rezoning on Westchester Avenue, between Pugsley Avenue and Olmstead Avenue. Tank closure activities took place in August 2002. A Phase II Environmental Site Investigation was performed in September 2009. The most recent RI work was performed during June 2012. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 2016-2040 Westchester Avenue in the Parkchester section in Bronx, New York and is identified as Block 3805 and Lots 11, 13, 14, 15, 17, 20 and 169 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 40,300-square feet and is bounded by Westchester Avenue to the north, 4-story residential building and 2-story garage building to the west, multiple 2-story residential buildings to the south and 1-story commercial building to the east. A map of the site boundary is shown in **Figure 2**.

Lot 169 is developed with a 1-story commercial building that is currently partially converted into an office area. Lot 11 is developed with a 1-story auto repair garage. Lots 13, 14, and 15 are each developed with a vacant 2-story residential building with a basement. Lot 17 is developed with a 1-story garage utilized as a storage unit. Lot 20 is currently utilized as an asphalt paved parking lot.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of 7-story mixed use residential, commercial and community building with a partial cellar and adjoining ground level parking. This project will include one additional parcel, identified as Block 3805 and Lot 67, which is not part of the NYCDEP Negative Declaration for a total project lot area of 50,544 square feet. The footprint of the building will be approximately 20,043 square feet.

This new development will consist of 134 units low income affordable rental apartments, a ground floor retail space of 13,500 square feet, and community facility space of 850 square feet and 91 off-street parking spaces. The partial cellar will be approximately 4,672 square feet. The partial cellar will be located in the northeastern portions of Lot 169 and Lot 11 and will consist of a storage area.

The depth of cellar excavation will be approximately 11 feet 7 inches below grade and the cellar footings will be approximately 14 feet below grade. The building will be identified as Park West Apartments, 2026 Westchester Avenue, Bronx, New York.

Open spaces, consisting of ground level asphalt paved parking, will be located in the rear portion of Lots 13, 14, 15, 17 and 20 of the Site and also throughout Lot 67. Landscaped strips will be present along the southeastern boundary of Lot 20 and southwestern boundary of Lot 169.

Layout of the proposed site development is presented in **Figure 3**. The current zoning designation is Residential district R6 with commercial overlay C2-2 for Lots 11, 13, 14, 15, 17, 20 and 169. The proposed use is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

The Site is located in a commercial and residential neighborhood. There are no surface bodies or regulated wetlands on or adjacent to the Site. Westchester Avenue is located to the north. A 4-story residential building and 2-story garage building are located to the west. Multiple 2-story residential buildings are located to the south. A 1-story commercial building is located to the east.

Within 500 feet radius of the Site, there is a variety of land uses including: commercial, residential (multi-story residential apartments) and mixed-residential/commercial/community use. Properties located within 1/4 mile radius of the Site are zoned R5, R6 (general residential districts) and C1-2, C1-4, C2-2, C4-2 (general retail districts).

Within 250 feet radius of the Site, no sensitive receptor is identified. The land uses include commercial and residential use.

Figure 4 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Based upon the review of the Fire Insurance Maps and Regulatory Agency documents from the Phase I Environmental Site Assessment (ESA) Reports prepared by Ecosystem. Strategies, Inc, in August 2002 and by M.D. London Associates., LLC., in May 2006, a Site history was established. Historically, the Site was occupied by mixed use residential and commercial facilities; residential buildings at Lot 169 between 1898 and 1929 and at Lots 13, 14 and 15 between 1908 and 2006; auto repair facilities at Lot 11 during 1950 and between 1992 and 2006 and at Lot 17 between 1988 and 2006; filling stations at Lot 11 between 1950 and 1991 and at Lot 17 between 1977 and 1986; used car sales at Lot 20 between 1977 and 2006, auto parking at Lot 169 between 1977 to 1996 and a Laundromat with no dry cleaning activities at Lot 169 during 2006.

2.2 Previous Investigations

Previous investigations performed at the Site included the following:

- Phase I Environmental Site Assessment (ESA), 2016-2020 Westchester Ave, August 2002, Ecosystem. Strategies, Inc,
- Tank Closure at 2030-2036 Westchester Ave, August 2002, Environmental Management, Inc.
- Phase I Environmental Site Assessment (ESA), 2016-2040 Westchester Ave, May 2006, M.D. London Associates., LLC.,
- Geotechnical Evaluation at 2016-2040 Westchester Ave, April 2009, URS.
- Phase II investigation at 2016-2040 Westchester Ave, September 2009, Hydro Tech Environmental, Corp.

Appendix A provides all previous environmental and geotechnical investigations.

2.3 Site Inspection

Mark London of M.D. London Associates., LLC., performed a Site Inspection on March 16, 2006 as a part of a Phase-I Environmental Site Assessments (ESAs) dated May 2006. Site reconnaissance included a visual inspection of all developed and vacant undeveloped portions of the Site and the adjacent land uses.

At the time of the inspection, Lot 169 was developed with a 1-story laundromat with rear parking lifts. The laundromat at Lot 169 did not include any dry cleaning activities. Lot 11 was developed with a 1-story auto repair garage (King Bear) and consisted of 8 bays with aboveground hydraulic lifts. A 100-gallon AST containing virgin motor oil and minor oil staining on concrete floor were observed in the auto repair shop. Two 275 gallons waste oil ASTs were observed in a concrete enclosure behind King Bear auto repair garage at Lot 11 with oil staining on the concrete floor. Lots 13, 14, and 15 were each developed with a 2-story residential building with a basement. The inspection of residential buildings was limited to the basements, which were utilized for storage. Lot 17 was developed with a 1-story auto repair and auto body shop (BX Auto Repair) and consisted of 3 bays with aboveground hydraulic lifts garage utilized as a storage unit. Within this shop it was observed numerous containers of paints and chemicals used for spay painting and oil staining on the concrete floor. Lot 20 was utilized as a fenced parking lot. Multiple indoor floor drains and outdoor storm drains discharging in municipal sewer system were observed at Lot 169 and Lot 11.

2.4 Areas of Concern

Historic on-site uses were previously evaluated and investigated by Ecosystem. Strategies, Inc and M.D. London Associates., LLC., in Phase-I Environmental Site Assessments (ESAs) dated August 2002 and May 2006, by Environmental Management, Inc., in a Tank Closure dated August 2002 and by Hydro Tech Environmental, Corp. in a Phase II investigation dated September 2009.

Recognized Environmental Conditions at the Site included the historical utilization of Lots 169 and 11 as an auto repair shop and a gasoline station, the historical utilization of Lots 13, 14, 15 and 17 as a gasoline station, the presence of waste oil tanks and drums in the rear portion of

Lot 11, the presence of petroleum staining within the existing buildings at the Site and the presence of suspect asbestos containing material and suspect lead-based paint in the buildings. Ten (10) 550-gallon gasoline underground storage tanks (USTs) were previously removed from the Lot 11 of the Site during 1994. A total of 59 tons of soil contaminated with metals, benzene and xylenes was properly disposed of from the Site during tank removal activities. In addition, six (6) 550-gallon gasoline USTs associated with a former gasoline station at Lots 13, 14 and 15 were closed and removed during July 2002. A Ground Penetrating Radar (GPR) survey confirmed the removal of all reported USTs at the Site. SVOCs consisting of Polycyclic aromatic hydrocarbons (PAHs) and metals are detected in soil/fill present beneath Lot 169, 11, 13, 14 and 15 from zero to 5 feet below grade at concentrations exceeding their respective regulatory Standards.

Based upon the geology, hydrogeology, and the present and historical use of the Site as defined in previous Phase I ESA reports and the results of previous Phase II Site Investigation report and tank closure report and other information collected during Site inspection, the following two AOCs were identified for this Site:

1. Presence of historic fill material beneath the Site at depths ranging from grade to 5 feet bgs
2. Past closure and removal of 16 USTs and associated contaminated soils.

A map showing areas of concern is presented in **Figure 5**.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Mark E. Robbins.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations. Hazardous waste, concentrated soil or semi-solid substances, soils with free product or NAPL and/or grossly contaminated media were not generated during the investigation.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

The following is the scope of work that summarizes the remedial investigatory efforts at the Site. The scope of work is implemented by Environmental Management, Inc. and by Hydro Tech Environmental, Corp. Additional remedial activities were performed by others and are listed below based on information provided in previous Phase I ESA.

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings in March 2006.
2. Performed of a Ground Penetrating Radar (GPR) survey throughout all open areas at the Site in September 2009;
3. Removed ten (10) 550 gallon gasoline USTs from the north-central portion of Lot 169 in May 1994;
4. Conducted soil cleanup activities as a result of petroleum release from the 10 gasoline UST at Lot 169 via removal and disposed 59 tons of petroleum impacted soil around the tanks in August 2002;
5. Removed six (6) 550 gallon gasoline USTs from the northern portions of Lots 13, 14 and 15 in August 2002;
6. Collected end point samples around the closed/removed six (6) 550 gallon gasoline USTs at Lot 13, 14 and 15 in August 2002 in accordance to NYSDEC DER-10. These included four (4) sidewall endpoints samples obtained at 6 feet bgs and one (1) bottom endpoint sample collected at 6 to 8 feet bgs;
7. Installed nine (9) soil borings across the entire project Site in September 2009, and collected eighteen (18) soil samples for chemical analysis from the soil borings to evaluate soil quality; these included nine (9) shallow soil samples from zero to 2 feet below grade (bgs), eight (8) deep dry samples from 4 to 6 feet bgs and one (1) deep saturated soil sample from 14 to 16 feet bgs;
8. Installed four (4) groundwater monitoring wells throughout the Site in September 2009 to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;

9. Installed five (5) soil vapor probes throughout the Site in June 2012 and collected five (5) samples for chemical analysis; and
10. Preparation of RIR based upon results of all investigation activities performed at the Site.

Photographs were taken during RI activities and are provided in **Appendix B**.

4.1 GEOPHYSICAL INVESTIGATION

A geophysical survey consisting of Ground Penetrating Radar (GPR) survey was performed at the Site on September 14, 2009. The purpose of the GPR survey was to identify the presence of any suspect underground storage tanks (USTs).

The survey was performed over a grid pattern that was determined immediately prior to the survey. The GPR operator wheeled the antenna over the predetermined grid. The GPR takes one “scan” per set unit. The number of scans per unit is based upon the estimated size of targets. As each scan is performed, the antenna emits specific radar amplitude into the subsurface. The amplitude of the radar reflected back to the antenna is based upon the differences in the dielectric constants of the subsurface materials. The differences in amplitude obtained during each scan are graphically displayed on the Control Unit, which are then interpreted by the GPR operator. Additional interpretations are then conducted in the office using computer software.

The GPR survey was performed successfully throughout all open areas at the Site. The GPR survey could not be performed beneath the commercial building at Lot 169, the auto repair shop at Lot 11, the residential homes at Lots 13, 14 and 15 and the garage at Lot 17. No anomalies indicative of suspect USTs were identified during the GPR survey.

4.2 TANK CLOSURE ACTIVITIES

According to a Phase I Environmental Site Assessment (ESA) report dated August 2002 and prepared by Ecosystem Strategies, Inc. at Lot 169 and Lot 11, ten (10) 550-gallon gasoline underground storage tanks (USTs) associated with a former gasoline filling station at Lot 169 were removed from the property by Main Elmsford Corporation during May 1994. Although no

reference to a complete tank closure report was provided in this Phase I ESA, Ecosystem Strategies provided a Site Plan, which revealed the location of the former gasoline USTs in the north central portion of Lot 169. A NYSDEC Petroleum Bulk Storage (PBS) file **#2-600794** associated with the Site indicated five (5) 550-gallon gasoline USTs and one (1) 550-gallon fuel oil UST are listed as closed during May 1994 at the property located at Lot 169. Ecosystem Strategies further indicated that during the tank removal activities, a total of 59 tons of soil contaminated with lead, benzene and xylenes was properly disposed of from the Site. Based on the fact that post-excavation sampling results were below the NYSDEC action levels, Ecosystem Strategies concluded that the condition at the property did not warrant the reporting of a NYSDEC spill case or the presence of any Recognized Environmental Conditions (RECs).

Ecosystem Strategies further identified two (2) 275-gallon ASTs containing waste oil and lube oil in the southeastern portion of the auto repair shop at Lot 11. These two tanks are registered for Lot 11 as active under the NYSDEC PBS file #2-609705.

A tank closure report dated August 30, 2002 and prepared by Environmental Management, Inc. documented the closure and removal of six (6) 550-gallon gasoline USTs associated with a former gasoline station at Lots 13, 14 and 15. The six tanks were removed from the northern portions of Lots 13, 14 and 15 by Felix & Sons Storage during July 2002. A total 3,300 gallons of waste liquids and one 55 gallon drum were properly disposed of the closed tanks in accordance with local, state and federal regulations.

No evidence of petroleum contamination was identified during the tank closure activities at Lot 13, 14 and 15. At the conclusion of the tanks closure at Lots 13, 14 and 15, endpoint soil samples were collected in accordance with NYSDEC DER-10. These included four (4) sidewall endpoints samples obtained at 6 feet bgs and one (1) bottom endpoint samples at 6 feet to 8 feet bgs. The tank excavation at lot 13, 14 and 15 was then backfilled with certified clean fill.

Hydro Tech updated the PBS **#2-600794** and **#2-609705** registrations under the current ownership during August 2009. In addition, PBS **#2-600794** was updated to reflect the closure/removal of the ten (10) gasoline USTs at Lot 169. Since the unregistered six (6) gasoline USTs located at Lots 13, 14 and 15 were removed prior to the change of ownership, the NYSDEC PBS unit declared this property as an unregulated facility, for which all previously

closed/removed tanks cannot be registered. A tank removal affidavit for the ten (10) closed removed gasoline USTs at Lot 169 was issued with the New York City Fire Department.

4.3 BORINGS AND MONITORING WELLS

Drilling and Soil Logging

Nine (9) soil probes designated SP-1 through SP-9 were installed at the Site during a Phase II investigation performed in September 2009. Eight (8) soil probes were installed to the depth of 6 feet below grade (bgs) and one soil probe was installed to the depth of 16 feet bgs. All soil probes were installed utilizing Hydro Tech's fleet of Geoprobe[®] fitted with Geoprobe[®] tooling and sampling equipment. Soil samples were collected utilizing a 4-foot long Macro Core sampler fitted with dedicated acetate liners. Each macrocore was cut open immediately. A geologist logged the lithology of soil sample at two foot intervals following the characterization and screening of samples with a Photo Ionization Detector (PID) for VOCs, prior to collecting the required samples for laboratory analysis. Boring logs included PID readings, visual/olfactory observations and soil classification utilizing the Unified Soil Classification System

A total of eighteen (18) soil samples were collected from the Site for laboratory analysis including nine shallow soil samples ranging in depth from zero to 2 bgs and eight deep dry soil samples ranging in depth from 4 to 6 feet bgs and one deep saturated soil sample from 14-16 feet.

Boring logs were prepared by a geologist and are provided along the Phase II investigation presented in **Appendix A**. A map showing the location of soil borings is shown in **Figure 6**

Groundwater Monitoring Well Construction

Four (4) groundwater monitoring wells MW-1 through MW-4 were installed in September 2009 and sampled at the Site during the RI. The monitoring wells were installed utilizing similar technology as the soil probes. The total depth of all monitoring wells is 36 feet bgs. Monitor well locations are shown in **Figure 6**.

All monitoring wells are constructed of 1-inch diameter PVC. Due to refusal, MW-1 was installed at 11 feet bgs, MW-2 at 17 feet bgs, MW-3 at 20 feet bgs and MW-4 at 19 feet bgs. The

screened interval of the wells consists of 0.020-inch slots and extend from the well bottom up to 1 foot bgs in MW-1, 4 feet bgs in MW-2 and MW-4 and 5 feet bgs in MW-3. The remaining portion of each of these wells consisted of a riser.

Monitor well locations are shown in **Figure 6**.

Survey

Land survey was used to identify the location of all soil borings and monitor wells. The elevation of all installed and existing monitoring were surveyed relative to a permanent surface benchmark. A qualified geologist performed all survey work reported in this RIR.

Water Level Measurement

One round of static water levels was obtained prior to groundwater purging and sampling to determine groundwater elevation and groundwater flow direction. Groundwater head measurements were collected utilizing a Solinst[®] 122 Oil/Water Interface Probe (Interface Probe). The Interface Probe can measure depths to water to 0.01 inch. The depth to water was measured in each well from the northern portion of the casing top.

Monitoring well MW-1 was found to be dry. Water level data from MW-2 to MW-4 is included in **Table 1**.

Soil Vapor Boring Construction

Five (5) soil vapor probes designated SV-1 through SV-5 were installed in June 2012. The soil vapor implants were installed in the subsurface soil, one foot above the groundwater level. A map showing the locations of soil vapor borings is shown in **Figure 6**. The probes were constructed with inert tubing. Vapor implants were sealed to the surface with non-VOC containing product. After installation of the probes, one to three volumes were purged prior to collecting the samples.

The soil vapor probes were installed utilizing similar technology as the soil probes in accordance with the NYSDOH Guidance of Evaluating Soil Vapor Intrusion, dated October 2006. Each soil vapor sampling point consisted of a stainless steel screen, or implant, fitted with dedicated polyethylene tubing. Each of the implants is 1½-inch in diameter. Glass beads were

poured into the hole to fully encompass the screen implant and the hole was sealed with bentonite and quick dry-lock non VOC quick set cement.

4.4 Sample Collection and Chemical Analysis

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

Soil Sampling

Five (5) endpoint soil samples were collected around the 10 closed/removed gasoline USTs at lot 169 utilizing a hand auger for chemical analysis. Nine (9) soil borings and eighteen (18) soil samples were collected in September 2009 for chemical analysis during the Phase II investigation. Soil samples from soil borings were collected utilizing a 4-foot long Macro Core sampler fitted with dedicated acetate liners. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in **Table 1**. **Figure 6** shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Each piece of sampling or other down hole equipment was decontaminated prior to each use in order to ensure that cross-contamination between sampling locations did not occur. The following procedure was utilized in the decontamination process:

- Wipe clean and wash with Alconox[®]
- Potable water rinse
- Methanol rinse
- Deionized water rinse
- Air dry

All decontamination procedures were performed in an area segregated from any sampling areas. Any rinsate from the decontamination area was contained and removed from the site.

All soil samples were properly handled and placed into the appropriately labeled containers. The samples were placed in a cooler filled with ice and maintained at a maximum 4 degrees Celsius. All samples were transmitted under proper chain of custody procedures to a State-certified (ELAP) laboratory for confirmatory laboratory analyses. All holding times were met. The laboratory did not report any irregularities with respect to their internal Quality Assurance/Quality Control.

Groundwater Sampling

Three (3) groundwater samples were collected in September 2009 for chemical analysis during the Phase II investigation. Groundwater samples were collected using the low stress (low flow) purging and sampling procedure. The low flow was accomplished with a Solinst Model 410 Peristaltic Pump.

All water samples were collected in laboratory supplied jars, properly labeled with the well number, the date and time of sampling, the analytical requirements, and then placed on ice for the duration of the sampling and transport to the laboratory. A chain of custody form was completed at the time of sampling and maintained until disposition of the samples at the laboratory.

Groundwater sample collection data is reported in **Table 2**. **Figure 6** shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Five (5) soil vapor probes were installed and five (5) soil vapor samples were collected in June 2012 for chemical analysis. Soil vapor sampling locations are shown in **Figure 6**. Soil vapor sample collection data is reported in **Table 3**. Soil vapor sampling logs are included in **Appendix C**. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*.

A soil vapor sample from each soil vapor probe was collected utilizing 6 liter pre-cleaned, passivated, evacuated whole air Summa[®] Canister. In order to insure the integrity of the borehole seal and to verify that ambient air is not inadvertently drawn into the sample, a tracer gas, Helium, was used to enrich the atmosphere in the immediate vicinity of the sampling location. Plastic sheeting was used to keep the tracer gas in contact with the soil vapor probe during the sampling. A portable monitoring device MGD-2002 Helium-Hydrogen Lead Detector; Model 83-219, was utilized to monitor a real time air sample from each soil vapor sampling point for Helium prior and after sampling. Helium detector readings ranged between 20 µg/L and 30 µg/L indicating helium was not detected. Following verification that the surface seal was tight and prior to soil vapor sampling, approximately 0.3 ml of air was purged out of all vapor points utilizing a syringe.

The Summa Canisters were calibrated for 4 hours and the soil vapor sampling was run on each canister for a time period of 4 hours. The initial vacuum (inches of mercury) and start time was recorded immediately after opening each Summa Canister. After the sampling was complete, the final vacuum and top time was recorded.

After the soil vapor sampling, each Summa was labeled and sent to a laboratory certified to perform air analysis in New York State.

Chemical Analysis

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

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Mr. Mark E. Robbins
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were Accredited laboratories, Inc. and South Mall Analytical Labs, Inc.

<p>Chemical Analytical Methods</p>	<p>Soil analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Groundwater analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Soil vapor analytical methods:</p> <ul style="list-style-type: none"> • VOCs by TO-15 VOC parameters.
------------------------------------	--

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in **Table 1, 2 and 3**. Laboratory data deliverables for soil and groundwater samples evaluated in this RIR are provided along environmental investigations presented in **Appendix A**. Laboratory data deliverables for soil vapor samples evaluated in this RIR are provided in digital form in **Appendix D**.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The stratigraphy of the site, from the surface down, consists of a historic fill layer ranging in thickness from zero to less than 5 feet (brown coarse to fine grained sand with varying amounts of silt and gravel). This layer is underlain by a sand layer, which extends from 5 feet below grade to variable depths ranging between 10 to 20 feet bgs (grey coarse to fine sand with silt, clay and gravel). Till and Decomposed Rock layer lies below the sand layer down to depths ranging between 10 to 35 feet bgs (grey coarse to fine sand with silt, clay, gravel and decomposed rock). Bedrock is encountered between 10 and 50 feet bgs (grey gneiss bedrock).

Hydrogeology

A table of water level data for all monitor wells is included in **Table 1**. The average depth to groundwater is 8.9 feet below grade and the range in depth is 7.78 feet to 9.9 feet below grade. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in **Figure 7**. Groundwater flow is from east-southeast to west-northwest.

5.2 Soil Chemistry

PCBs and Pesticides were not detected in any of soil samples. Trace concentrations of several gasoline related VOCs were detected in shallow as well as deeper soils with a maximum total concentration of less than 1 ppm. All detected VOCs were below Track 1 Unrestricted Soil Cleanup Objectives (SCOs). PCE and TCE were not detected in soil sample. Six SVOCs including Benzo(a)Anthracene (max. of 38.6 ppm), Benzo(a)Pyrene (max. of 28.7 ppm), Benzo(b)Fluoranthene (max. of 30.8 ppm), Benzo(k)Fluoranthene (max. of 13.9 ppm), Chrysene (max. of 28 ppm), and Indeno(1,2,3-cd) Pyrene (max. of 16 ppm) were detected at concentrations in excess of Track 2 Residential SCOs in shallow soils. SVOCs in deep soil samples were all below Unrestricted Use Track 1 SCOs. The total SVOCs ranged from none detect to less than 50 ppm in all borings except for one location which detected SVOCs at a maximum concentration of 452 ppm (in the vicinity of the former location of the 10 gasoline USTs at Lot 169). Metals including chromium (maximum of 40 ppm), copper (maximum of 61 ppm), nickel (maximum of 75 ppm), lead (maximum of 165 ppm) and zinc (maximum of 260

ppm) exceeded Unrestricted Use Track 1 SCOs and of these, chromium also exceeded Track 2 Residential SCOs in shallow and deep soils.

Overall, with the exception of one SVOC hotspot in the vicinity of the former UST area, the SVOC findings are consistent with the presence of historic fill material at the property.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in **Table 1**. **Figures 8 and 9** show the location and post the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 1 and Track 2 Soil Cleanup Objectives.

5.3 Groundwater Chemistry

Groundwater samples collected during the RI showed no Pesticides or PCBs detected in any of the groundwater samples collected at the Site. One VOC Methyl-Tert-Butyl-Ether was detected in one groundwater sample at concentration (25.4 µg/L), which exceeded NYSDEC Part 703.5 Groundwater Quality Standards (GQS). One SVOC 2,6-Dinitrotoluene was detected in two groundwater samples (maximum of 13.2 µg/L) above GQS. Since no evidence of Methyl-Tert-Butyl-Ether and 2,6-Dinitrotoluene was identified in any of the soil samples collected at the Site and combined with the fact that former USTs fields are located downgradient, it appears that Methyl-Tert-Butyl-Ether in the groundwater is from an off-site source.

Dissolved metals including magnesium, manganese, selenium and sodium were detected above GQS and appear to be associated with area-wide impact of brackish water.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in **Table 2**. **Figures 10 and 11** show the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

Soil vapor samples collected during the RI showed a variety of gasoline related VOCs detected throughout the Site. PCE and TCE were not detected in any samples. The VOC including benzene (37 to 270 $\mu\text{g}/\text{m}^3$), carbon disulfide (25 to 180 $\mu\text{g}/\text{m}^3$), toluene (69 to 320 $\mu\text{g}/\text{m}^3$), and xylenes (130 to 300 $\mu\text{g}/\text{m}^3$) were most abundant compound observed in soil vapors. The gasoline-related compounds in soil vapor are most likely residuals left over from the UST's removed from the site.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in **Table 3**. **Figure 12** shows the location and posts the values for soil vapor samples with detected concentrations.

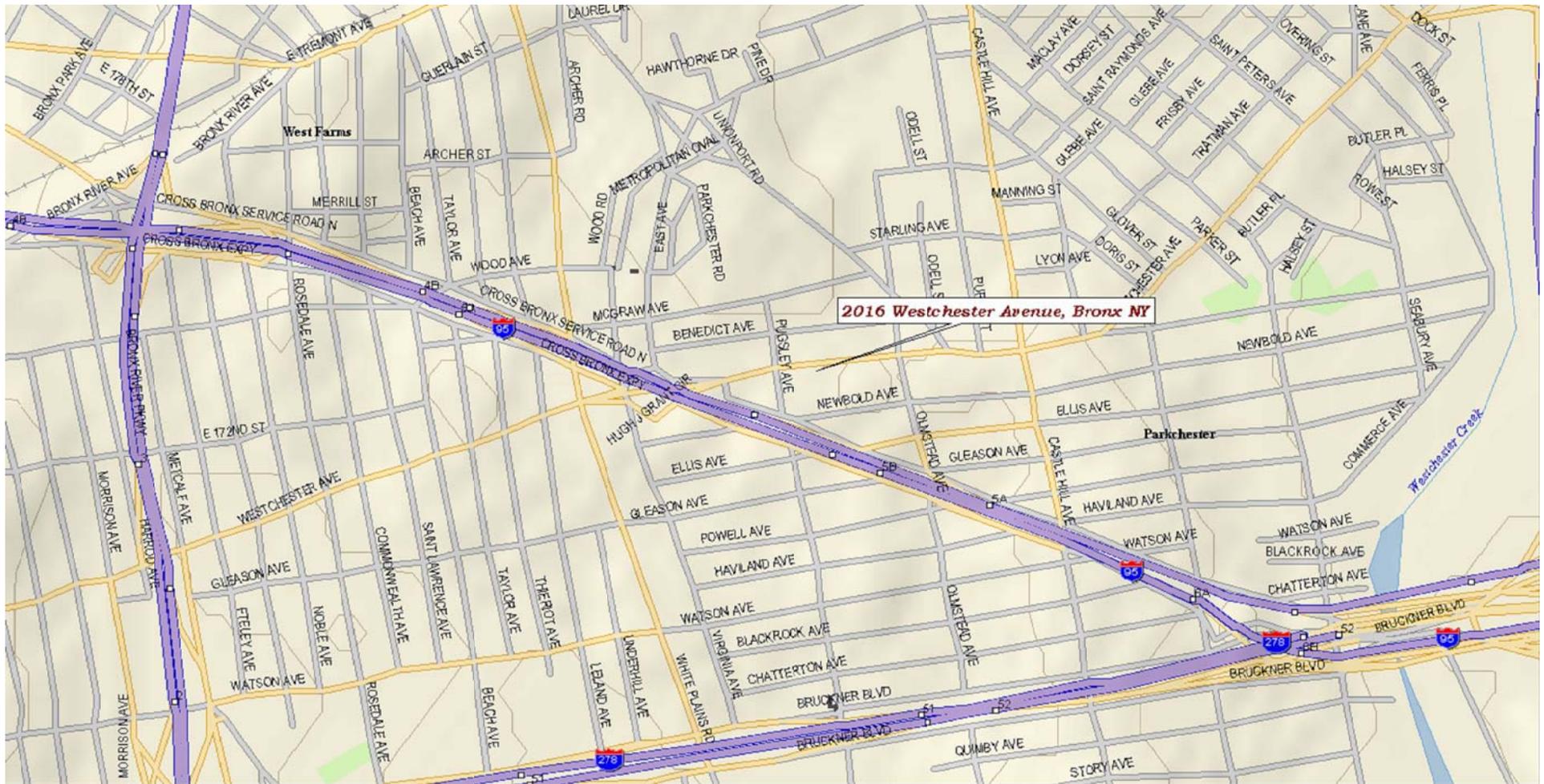
5.5 Prior Activity

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

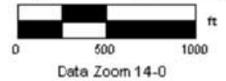
5.6 Impediments to Remedial Action

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

FIGURES



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2016-2040 Westchester Avenue
 Bronx, NY
 HTE Job# 120112

Drawn By: C.O.
 Reviewed By: M.R.
 Approved By: M.S.
 Date: 07/25/12
 Scale: AS NOTED

TITLE:

FIGURE 1: SITE LOCATION MAP

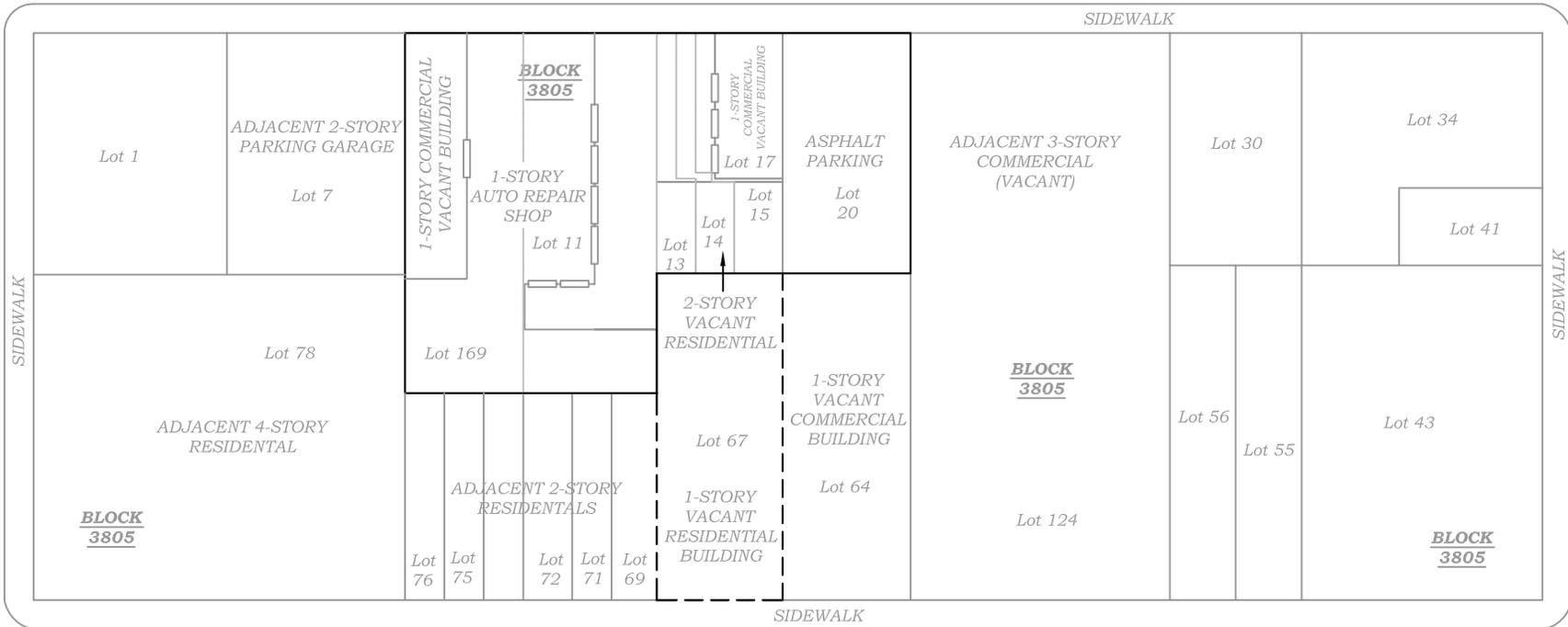


ADJACENT 1-STORY
COMMERCIAL

ADJACENT 4-STORY
RESIDENTIAL



SIDEWALK



← NEWBOLD AVENUE →

LEGEND:

— SITE BOUNDARIES

---- LOT ASSOCIATED WITH THE NEW DEVELOPMENT AT THE SITE. THIS LOT WAS NOT INVESTIGATED AS PART OF RESTRICTIVE DECLARATION ASSIGNED TO THE SITE



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Approved By: M.S.
Date: 07/25/12
Scale: AS NOTED

TITLE:

FIGURE 2: SITE BOUNDARY MAP

Figure 3
Proposed Redevelopment Plan

Park West Apartments

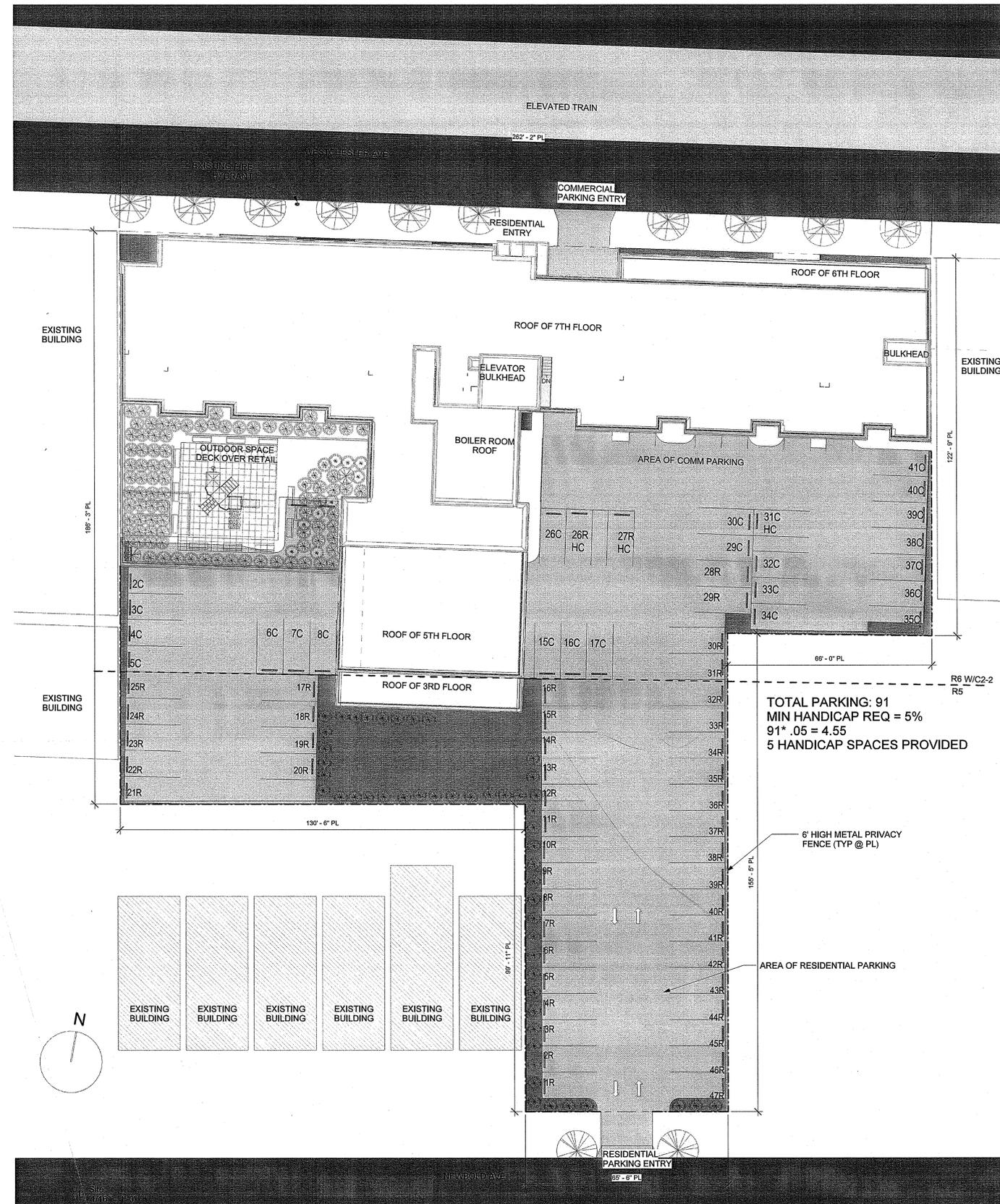
2026 Westchester Avenue
The Bronx, NY 10462

134 Unit Mixed Use New Development

Owner:

Park West Apartments, LLC
2016 Westchester Avenue
Bronx, NY 10462
Tel: (718) 931.1100 Fax: (718) 829.5917

NYCDOB#



Key Plan:

Issued:

NUMBER	DATE	DESCRIPTION
01	08.11.09	DoB Preliminary Filing
02	07.17.09	DACE Resubmission
03	11.19.09	Review Set for MJM
04	12.02.09	DACE Re-submission
05	01.22.09	Issued for DoB Filing
06	02.10.10	DACE Re-submission
07	10.25.10	Issued for DoB Filing

Revisions:

Architect:

MAT
Magnusson Architecture & Planning PC
853 Broadway Suite 800
New York, NY 10003
Tel: (212) 253 7620 Fax: (212) 253 1276

Structural Engineer:
Cokusan Associates
31 W 27th St
New York, NY 10001
Tel: 212 545 7878 Fax: 212 545 8222

MEP Engineer:
Elinger Engineering Associates
505 Eighth Avenue
New York, NY 10018
Tel: 212 244 2410 Fax: 212 643 1606

Filing Representative:
James Macdonald Ltd
225 Broadway Suite 712
New York, NY 10007
Tel: (212) 353 9101 Fax: (212) 353 9023

Do Not Scale Plans
Contractor to promptly notify Architect of any material variations between field conditions and existing conditions as indicated in Contract documents

PROJECT
Park West Apartments
2026 Westchester Avenue
The Bronx, NY 10462

SITE PLAN

SEAL & SIGNATURE:

DATE: 05.11.09

PROJECT No: 07021

DRAWING BY: Author

CHK BY: Checker

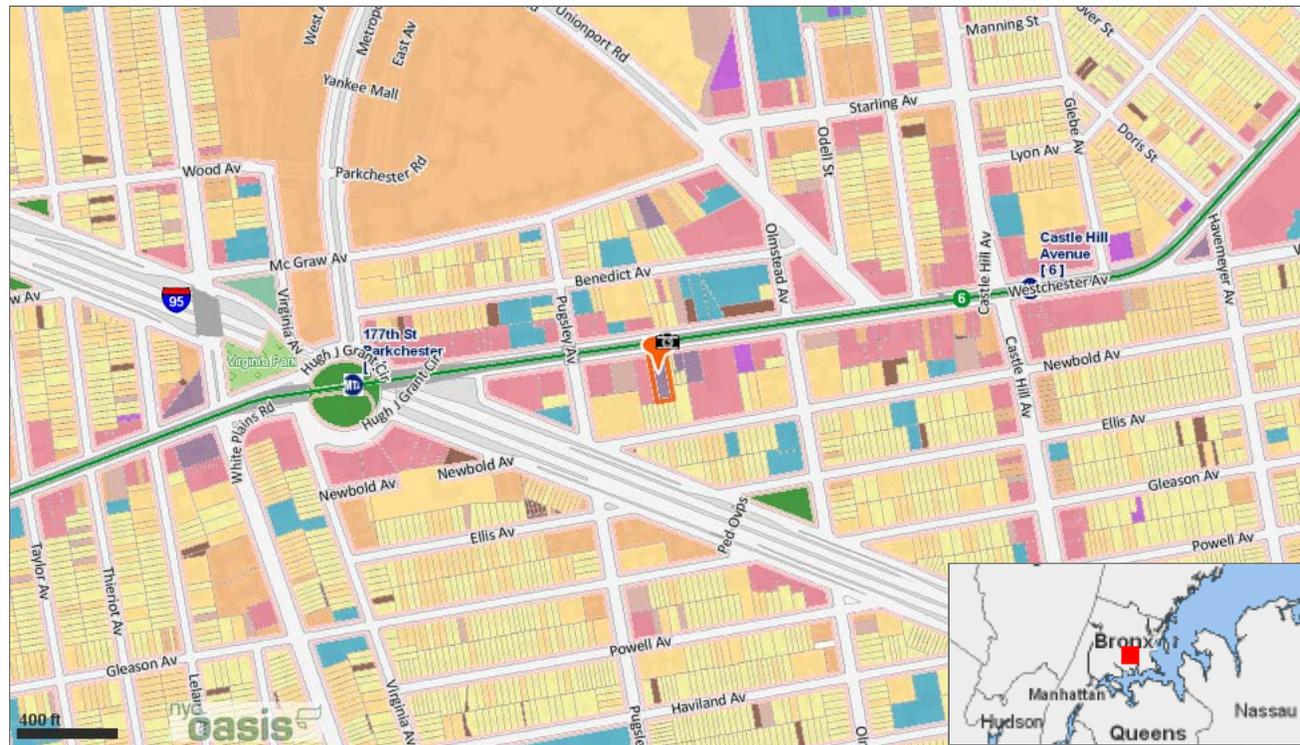
DWG No: **A-010.00**

8 of 102



Figure 4
Land-Use map

9016-9040 Westchester Avenue, Bronx, NY



Legend

- Transit, Roads, Reference Features**
 - Roads, ferries, commuter rail, neighborhood names
 - Roads**
 - Major Roads
 - Interstate Highways
 - Tunnels
 - Neighborhood/Town Labels**
 - County Boundaries**
 - Ferry**
 - Commuter Rail**
 - NYC subway routes and stations**
- Parks, Playgrounds, & Open Space**
 - Parks & Public Lands
 - Forested Areas (NJ)
 - Community Gardens
 - School property with garden
 - Playgrounds
 - Green Spaces Along Streets
 - Golf Courses
 - Baseball/Soccer/Football Fields
 - Tennis/Basketball/Handball Courts & Tracks
 - Cemeteries
- Land Use**
 - Block/Lot Boundaries**
 - (Building footprints in gray)
 - 1 & 2 Family Residential
 - Multi-family Residential
 - Mixed Use
 - Open space & outdoor recreation
 - Commercial
 - Institutions
 - Industrial
 - Parking
 - Transportation / Utilities
 - Vacant Lots

(Not all items in the legend may be visible on the map.)

This map was created using the Open Accessible Space Information System (OASIS) website, licensed under a [Creative Commons Attribution-Noncommercial-Share Alike 3.0 United States License](https://creativecommons.org/licenses/by-nc-sa/4.0/). Visit www.oasisnyc.net for the latest information about data sources and notes about how the maps were developed. Contact oasisnyc@gc.cuny.edu with questions or comments. OASIS is developed and maintained by the [Center for Urban Research](http://www.cunycr.org/), CUNY Graduate Center.

Location Report

Property Information (1)

2026 WESTCHESTER AVENUE, BRONX 10462

Transportation / Utility

Owner: NEROC ASSOCIATES, INC

Block: 3805 Lot: 11

Property Characteristics:

Lot Area: 12,574 sq ft (69.15' x 181.84')

of Buildings: 1 Year built: 1950

of floors: 1 Building Area: 5,510 sq ft

Total Units: 1 Residential Units: 0

Primary zoning: R6 Commercial Overlay: C2-2

Floor Area Ratio: 0.44 Max. FAR: 2.43

FAR may depend on street widths or other characteristics. Contact [City Planning Dept.](#) for latest information.

MORE INFO:

- Zoning Map#: [4b](#) ([how to read](#) NYC zoning maps)
- Historical Zoning Maps: [4b](#)
- [NYC Dept. of Buildings](#)
- [Property transaction records](#)
- [NYC Dept. of Finance Assessment Roll](#)
- [NYC Digital Tax Map](#)
- [NYC zoning guide](#)
- [NYC Watershed Resources](#)

OASIS shortcut to this property:

<http://oasisnyc.com/printmap.aspx?zoomto=lot:2038050011>

Source: The Bytes of the Big Apple (TM) PLUTO (TM) and Tax Block & Tax Lot files are copyrighted by the New York City Department of City Planning, 2010 (ver. 10v1).

NYC Department of City Planning Census Factfinder

Find all census tracts within mile(s) **Go**

YAHOO! Local search results for this address:

Know of something that's missing? [Add it to YAHOO!](#)

Community District (1)

Bronx 9 Community District Information

Chairperson: Mr. Enrique Vega

District Manager: Mr. Francisco Gonzalez

Address: 1967 Turnbull Avenue, Rm. 7, Bronx, NY, 10473

Phone: 718-823-3034 Email: bxbrd09@optonline.net

Website: <http://www.bronxmall.com/commboards/cd9.html>

Meeting Information: District Office

[Go to District Profile](#) by NYC Dept. of City Planning

Political Districts (5)

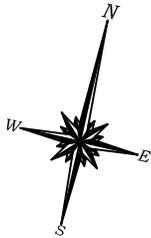
NYC Council: [District 18](#)

NYS Assembly: [District 76](#)

NYS Senate: [District 32](#)

US House of Representatives: [District 7](#)

US Senate: [New York](#)



ADJACENT 1-STORY
COMMERCIAL

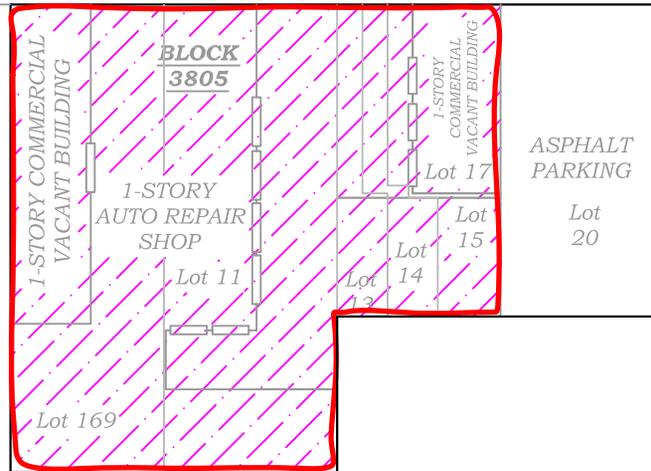
ADJACENT 4-STORY
RESIDENTIAL

OVERHEAD NYC
SUBWAY TRACK

WESTCHESTER AVENUE

OVERHEAD NYC
SUBWAY TRACK

SIDEWALK



ADJACENT 2-STORY
RESIDENTIALS

LEGEND:

 SITE BOUNDARIES

 AREA OF SVOC IN SHALLOW SOIL



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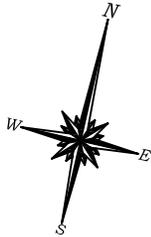
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Reviewed By: M.R.
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Scale: AS NOTED

TITLE:

FIGURE 5: MAP OF AREAS OF CONCERN



ADJACENT 1-STORY
COMMERCIAL

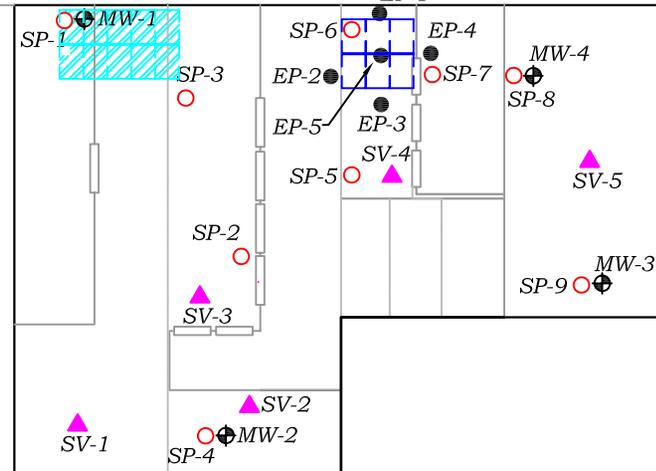
ADJACENT 4-STORY
RESIDENTIAL

OVERHEAD NYC
SUBWAY TRACK

OVERHEAD NYC
SUBWAY TRACK

WESTCHESTER AVENUE

SIDEWALK



ADJACENT 3-STORY
COMMERCIAL
(VACANT)

ADJACENT 2-STORY
RESIDENTIALS

LEGEND:

- SITE BOUNDARIES
- SOIL PROBES (SP) - INSTALLED DURING SEPTEMBER 2009
- MONITORING WELL (MW) - INSTALLED DURING SEPTEMBER 2009
- END POINT SAMPLE (EP) - INSTALLED DURING AUGUST 2002
- SOIL VAPOR SAMPLING PONT (SV) - INSTALLED DURING JUNE 2012
- 550 GAL. GASOLINE TANKS EXCAVATED - REMOVED DURING AUGUST 2002
- 550 GAL. GASOLINE TANKS EXCAVATED - REMOVED DURING JULY 2004



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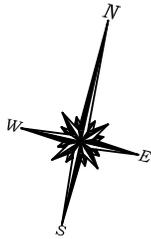
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FIGURE 6: SAMPLING PLAN



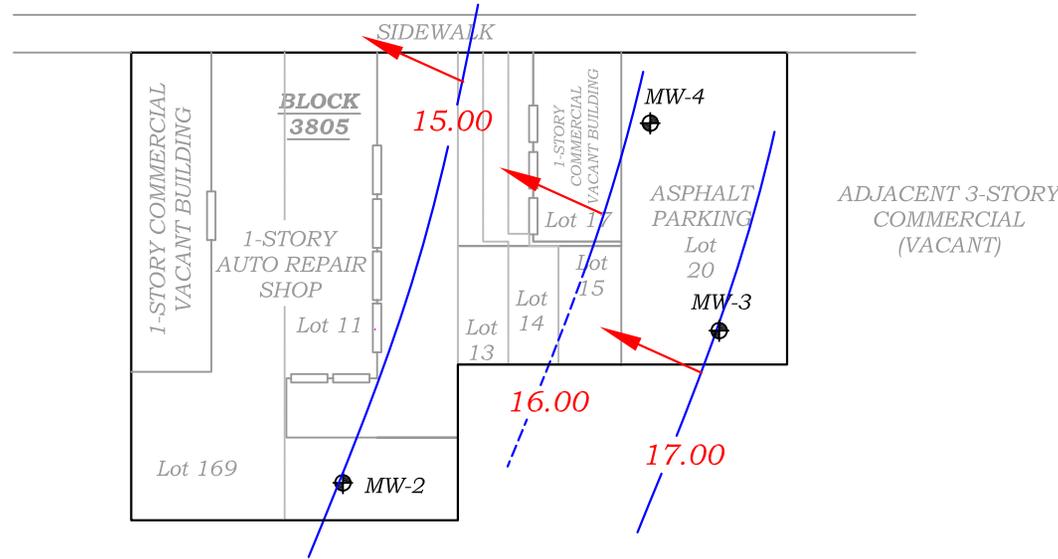
ADJACENT 1-STORY
COMMERCIAL

ADJACENT 4-STORY
RESIDENTIAL

OVERHEAD NYC
SUBWAY TRACK

WESTCHESTER AVENUE

OVERHEAD NYC
SUBWAY TRACK



C.I. = 1.00 FEET

Monitoring Well ID	Groundwater Elevation
MW-2	15.40
MW-3	17.10
MW-4	16.25

LEGEND:

- SITE BOUNDARIES
- DASHED WHERE INFERRED
- CONTOUR LINES
- MONITORING WELL LOCATIONS (MW)
- C.I. CONTOUR INTERVAL



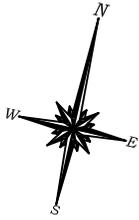
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 Approved By: M.S.
 Date: 07/27/12
 Scale: AS NOTED

TITLE:

FIGURE 7: GROUNDWATER FLOW DIAGRAM - SEPTEMBER 2009



SP-3			
Depth	0' - 2'		
SVOC	mg/kg	USCO	RSCO
Benzo (a) Anthracene	38.6	1	1
Benzo (a) Pyrene	28.7	1	1
Benzo (b) fluoranthene	30.8	1	1
Benzo (k) fluoranthene	13.9	0.8	1
Chrysene	28	1	1
Indeno (1,2,3-cd) Pyrene	16	0.5	0.5

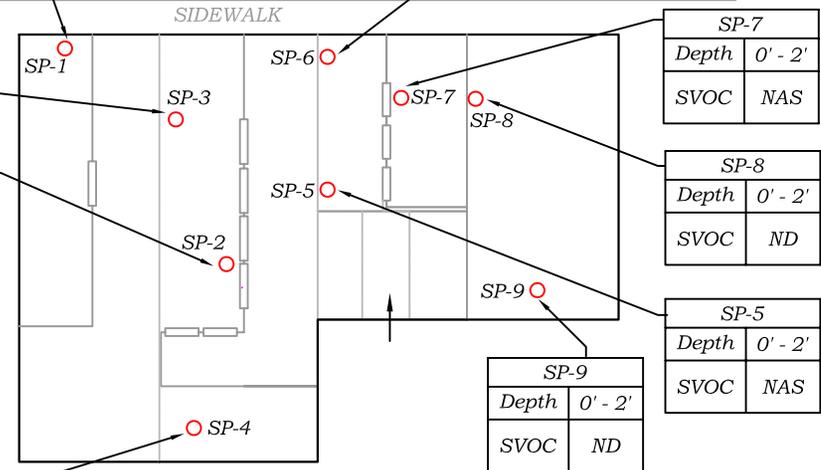
SP-1	
Depth	0' - 2'
SVOC	NAS

SP-6			
Depth	0' - 2'		
SVOC	mg/kg	USCO	RSCO
Benzo (a) Anthracene	2.61	1	1
Benzo (a) Pyrene	2.59	1	1
Chrysene	2.44	1	1
Indeno (1,2,3-cd) Pyrene	1.62	0.5	0.5

SP-2			
Depth	0' - 2'		
SVOC	mg/kg	USCO	RSCO
Benzo (a) Anthracene	4.78	1	1
Benzo (a) Pyrene	4.39	1	1
Benzo (b) fluoranthene	5.09	1	1
Benzo (k) fluoranthene	2.35	0.8	1
Chrysene	4.14	1	1
Indeno (1,2,3-cd) Pyrene	3.11	0.5	0.5

WESTCHESTER AVENUE

OVERHEAD NYC
SUBWAY TRACK



SP-7	
Depth	0' - 2'
SVOC	NAS

SP-8	
Depth	0' - 2'
SVOC	ND

SP-5	
Depth	0' - 2'
SVOC	NAS

SP-9	
Depth	0' - 2'
SVOC	ND

SP-4			
Depth	0' - 2'		
SVOC	mg/kg	USCO	RSCO
Benzo (a) Anthracene	2.55	1	1
Benzo (a) Pyrene	2.61	1	1
Benzo (k) fluoranthene	4.06	0.8	1
Chrysene	2.4	1	1
Indeno (1,2,3-cd) Pyrene	1.98	0.5	0.5

LEGEND:

SITE BOUNDARIES

SOIL PROBES (SP)

SVOC SEMI VOLATILE ORGANIC COMPOUNDS

mg/kg MILLIGRAMS PER KILOGRAMS

USCO UNRESTRICTED SOIL CLEANUP OBJECTIVE

RSCO RESTRICTED SOIL CLEANUP OBJECTIVE

ND NONE DETECTED

NAS NONE ABOVE STANDARD



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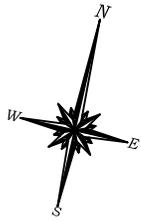
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2016-2040 Westchester Avenue
Bronx, NY
HTE Job# 120112

Drawn By: C.O.
Reviewed By: M.R.
Approved By: M.S.
Date: 07/27/12
Scale: AS NOTED

TITLE:

FIGURE 8: SVOC IN SOIL IN EXCEEDENCE OF SCO



SP-1				
Depth	0' - 2'	4' - 6'		
METALS	mg/kg	mg/kg	USCO	RSCO
Chromium	37.2	NAS	30*	36*

SP-3				
Depth	0' - 2'	14' - 16'		
METALS	mg/kg	mg/kg	USCO	RSCO
Copper	53.8	NAS	50	270
Lead	117	73.3	63	400
Zinc	NAS	134	109	2,200

SP-2				
Depth	0' - 2'	4' - 6'		
METALS	mg/kg	mg/kg	USCO	RSCO
Copper	66.2	NAS	50	270
Lead	87.3	NAS	63	400

SP-4				
Depth	0' - 2'	4' - 6'		
METALS	mg/kg	mg/kg	USCO	RSCO
Copper	60.9	NAS	50	270
Lead	116	NAS	63	400
Zinc	260	NAS	109	2,200
Chromium	NAS	98.7	30*	36*
Nickel	NAS	75.4	30	140

SP-6		
Depth	0' - 2'	4' - 6'
METALS	NAS	NAS

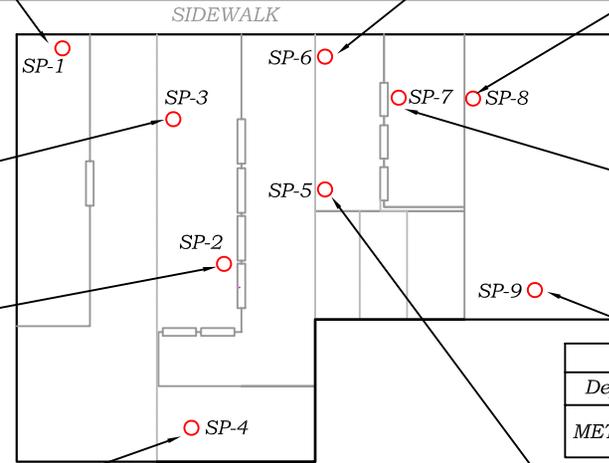
SP-8				
Depth	0' - 2'	4' - 6'		
METALS	mg/kg	mg/kg	USCO	RSCO
Chromium	40.3	NAS	30*	36*

SP-7				
Depth	0' - 2'	4' - 6'		
METALS	mg/kg	mg/kg	USCO	RSCO
Lead	165	NAS	63	400

SP-9		
Depth	0' - 2'	4' - 6'
METALS	NAS	NAS

SP-5				
Depth	0' - 2'	4' - 6'		
METALS	mg/kg	mg/kg	USCO	RSCO
Lead	64.3	101	63	400

WESTCHESTER AVENUE
OVERHEAD NYC SUBWAY TRACK



LEGEND:

- SITE BOUNDARIES
- SVOC SEMI VOLATILE ORGANIC COMPOUNDS
- MILLIGRAMS PER KILOGRAMS
- STANDARD FOR CHROMIUM TRIVALENT
- UNRESTRICTED SOIL CLEANUP OBJECTIVE (SCO)
- RESIDENTIAL USE SCO
- NONE DETECTED
- NONE ABOVE STANDARD
- SOIL PROBES (SP)



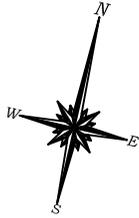
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FIGURE 9: METALS IN SOIL IN EXCEEDENCE OF SCO



ADJACENT 1-STORY
COMMERCIAL

ADJACENT 4-STORY
RESIDENTIAL

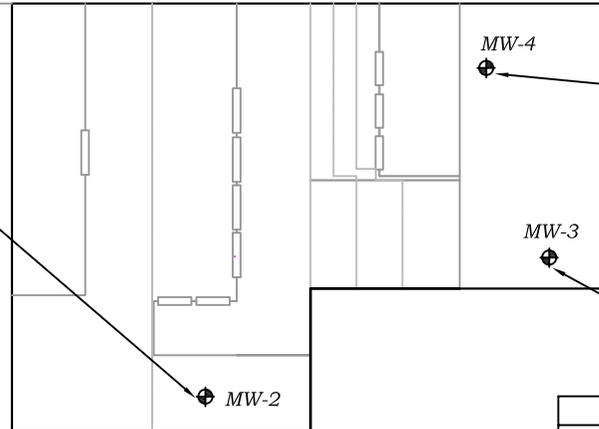
OVERHEAD NYC
SUBWAY TRACK

WESTCHESTER AVENUE

OVERHEAD NYC
SUBWAY TRACK

SIDEWALK

MW-2		
VOC	µg/L	GQS
Methyl-t-butyl ether	25.4	10
SVOC	µg/L	GQS
2,6-Dinitrotoluene	10.6	5



MW-4	
VOC	ND
SVOC	ND

MW-3		
VOC	ND	
SVOC	µg/L	GQS
2,6-Dinitrotoluene	13.2	5

LEGEND:

- SITE BOUNDARIES
- MONITORING WELL LOCATIONS (MW)
- VOC VOLATILE ORGANIC COMPOUNDS
- SVOC SEMI VOLATILE ORGANIC COMPOUND
- ND NONE DETECTED
- µg/L MICROGRAMS PER LITER
- GQS GROUNDWATER QUALITY STANDARD



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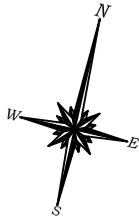
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 Reviewed By: M.R.
 Approved By: M.S.
 Date: 07/27/12
 Scale: AS NOTED

TITLE:

FIGURE 10: VOCs & SVOCs IN GROUNDWATER IN EXCEEDENCE OF GQS



ADJACENT 1-STORY
COMMERCIAL

ADJACENT 4-STORY
RESIDENTIAL

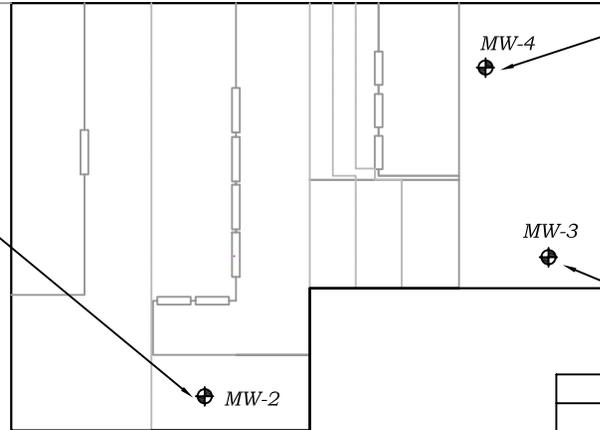
OVERHEAD NYC
SUBWAY TRACK

WESTCHESTER AVENUE

OVERHEAD NYC
SUBWAY TRACK

SIDEWALK

MW-2			
METALS	Unfiltered mg/L	Filtered mg/L	GQS
Copper	0.026	ND	0.2
Iron	17	ND	0.3
Magnesium	111	109	35
Manganese	1.74	1.46	0.30
Selenium	ND	0.026	0.01
Sodium	63.5	73.8	20



MW-4			
METALS	Unfiltered mg/L	Filtered mg/L	GQS
Iron	15.6	ND	0.3
Manganese	2.54	2.09	0.30
Selenium	ND	0.026	0.01
Sodium	35.2	43.8	20

MW-3			
METALS	Unfiltered mg/L	Filtered mg/L	GQS
Iron	3.41	1.32	0.3
Manganese	1.41	1.27	0.30

LEGEND:

- SITE BOUNDARIES
- MONITORING WELL LOCATIONS (MW)
- ND NONE DETECTED
- mg/L MILLIGRAMS PER LITER
- GQS GROUNDWATER QUALITY STANDARD



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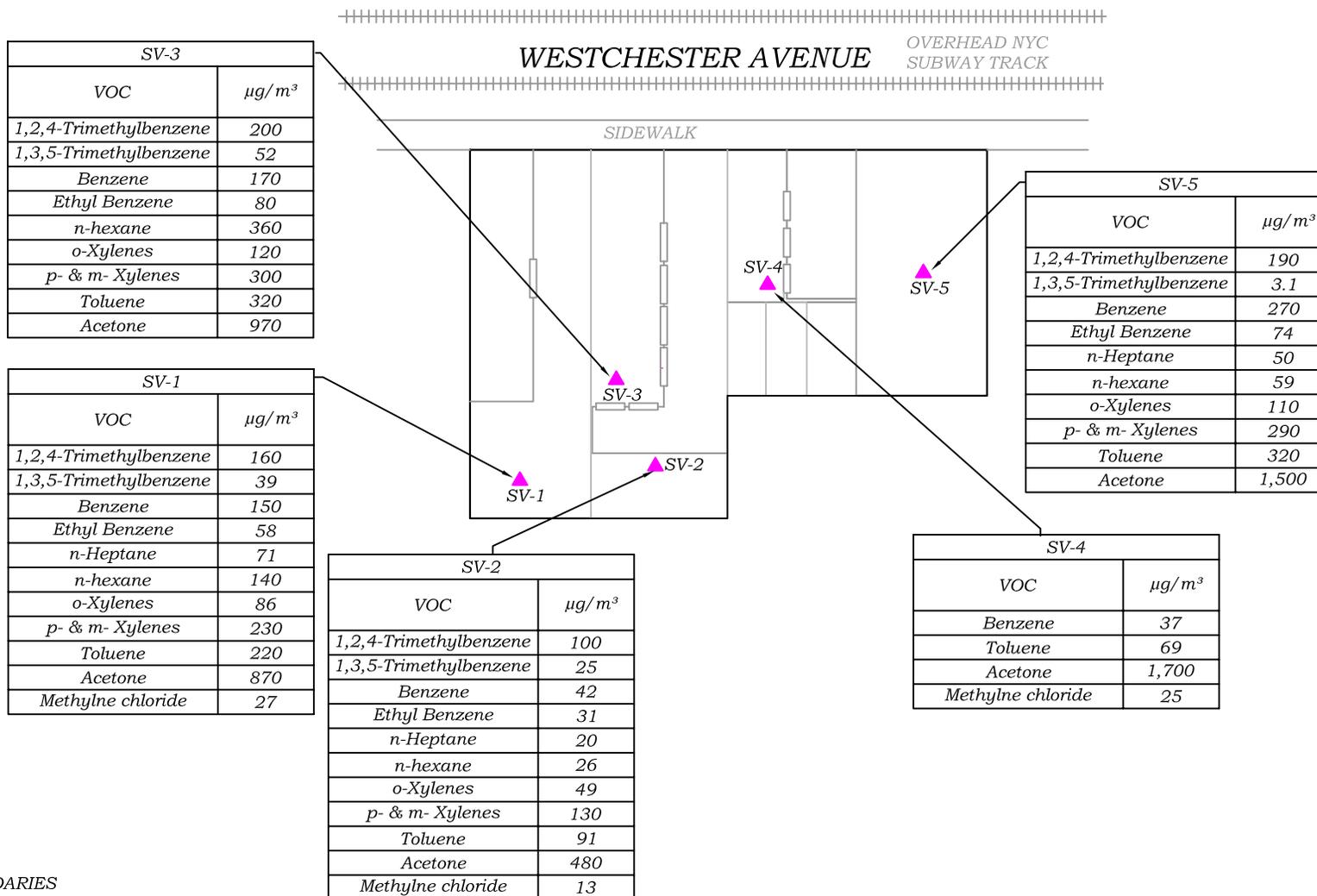
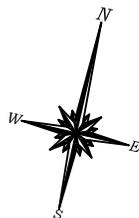
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TITLE:

FIGURE 11: METALS IN GROUNDWATER IN EXCEEDENCE OF GQS



LEGEND:

SITE BOUNDARIES

VOC VOLATILE ORGANIC COMPOUNDS

µg/m³ MICROGRAMS PER CUBIT METER

SOIL VAPOR SAMPLING PONT (SV) - INSTALLED DURING JUNE 2012



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TITLE:

FIGURE 12: GASOLINE COMPOUNDS AND OTHER VOCs OF CONCERN IN SOIL VAPOR SAMPLES

TABLES

Table 1
Monitoring Results - September 2009
2016-2040 Westchester Ave, Bronx, NY

Well ID	Casing Elevation (ft)	Free Product (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
MW-1	23.1	x	x	x
MW-2	25.3	ND	9.90	15.4
MW-3	24.88	ND	7.78	17.1
MW-4	25.34	ND	9.09	16.25

ft....feet

ND....not detected

x...dry at this time

Table 2 (Cont.)
Shallow Soil Samples Organic Analytical Results
2016-2040 Westchester Ave, Bronx, NY

Sample Identification	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	Urestricted SCO	Residential SCO
Sample Depth	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'		
Volatile Organic Compounds											
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.76	1.4
Chloroacetamide	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	100
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37	10
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	59
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Ethylacetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Ethylbenzene	ND	ND	0.00876	ND	ND	ND	ND	ND	ND	1	30
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	0.33
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
m + p-Xylene	ND	ND	0.0126	ND	ND	ND	ND	ND	ND	0.26	100
o-Xylene	ND	ND	0.0337	ND	ND	ND	ND	ND	ND	0.26	100
Xylene (Total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	100
Methanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Methyl ethyl ketone (2-Butanone)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	100
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	51
Methyl-Tert-Butyl-Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.93	62
Naphthalene	ND	ND	0.651	ND	0.00843	0.0104	0.025	ND	ND	NS	NS
n-Butylbenzene	ND	ND	0.00528	ND	0.0039	0.0012	0.00119	ND	ND	12	NS
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
n-Propylbenzene	ND	ND	0.0106	ND	0.00478	0.00385	ND	ND	ND	3.9	100
Pentachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pentachloronitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
sec-Butylbenzene	ND	ND	ND	ND	0.00182	0.00109	ND	ND	ND	11	100
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	100
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	5.5
Toluene	ND	ND	0.00402	ND	ND	ND	ND	ND	ND	0.7	100
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	100
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47	10
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.21
Total VOCs	ND	ND	0.877	ND	0.04173	0.03183	0.03492	ND	ND	NS	NS

Table 2 (Cont.)
Shallow Soil Samples Organic Analytical Results
2016-2040 Westchester Ave, Bronx, NY

Sample Identification	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	Urestricted SCO	Residential SCO
Sample Depth	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'		
Semi-Volatile Organic Compounds											
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chrysene	0.356	4.14	28	2.4	0.881	2.44	ND	ND	ND	1	1
Dibenzo (a,h) Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	0.33
Dibenzofuran	ND	ND	5.07	ND	ND	ND	ND	ND	ND	NS	NS
Diethyl Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dimethyl Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-Butyl Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-hexyl-phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
D-n-n-octyl Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Fluoranthene	0.647	9.75	92.2	4.89	2.12	3.83	0.203	ND	0.136	100	100
Fluorene	ND	ND	11.7	ND	ND	ND	ND	ND	ND	30	100
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachlorobudadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Indeno (1,2,3-cd) Pyrene	ND	3.11	16	1.98	ND	1.62	ND	ND	ND	0.5	0.5
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
m-Cresol	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	100
Naphthalene	ND	ND	2.85	ND	ND	ND	ND	ND	ND	12	100
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
o-Cresol	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	100
p-Cresol	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	34
Pentachloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	2.4
Phenanthrene	0.25	4.87	72.6	1.74	0.843	1.73	ND	ND	ND	100	100
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	100
Pyrene	0.655	6.11	66.9	4.66	1.01	4.35	ND	ND	ND	100	100
Total SVOCs	2.801	49.32	451.95	28.98	8.131	23.808	0.325	ND	0.136	NS	NS
Pesticides											
2,3,7,8-TCDD	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,3,7,8-TCDF	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4,5-TP Acid (Silvex)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	5.8
2,4-D(2,4-Dichloro-Phenoxyacetic acid)	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
a BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.097
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.019
b BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.036	0.072
Biphenyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chlordane (alpha)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.094	0.91
Chlordecone (Kepone)	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
d BHC g	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	100

**Table 2 (Cont.)
Shallow Soil Samples Organic Analytical Results
2016-2040 Westchester Ave, Bronx, NY**

Sample Identification	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	Unrestricted SCO	Residential SCO
Sample Depth	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'		
Pesticides											
Dibenzofuran	ND	7	14								
Dieldrin	ND	0.005	0.039								
Endosulfan I	ND	2.4	4.8								
Endosulfan II	ND	2.4	4.8								
Endosulfan Sulfate	ND	2.4	4.8								
Endrin	ND	0.014	2.2								
Endrin Aldehyde	ND	NS	NS								
Furan	ND	NS	NS								
Gama Chlordane	ND	NS	NS								
Heptachlor	ND	0.042	0.42								
Heptachlor Epoxide	ND	NS	NS								
Lindane	ND	0.1	0.28								
Methoxychlor	ND	NS	NS								
p,p-DDD	ND	0.0033	2.6								
p,p-DDE	ND	0.0033	1.8								
p,p-DDT	ND	0.0033	1.7								
Parathion	ND	NS	NS								
Polychlorinated biphenyls	ND	0.1	1								
Toxaphene	ND	NS	NS								
PCBs											
Aroclor 1016	ND	NS	NS								
Aroclor 1221	ND	NS	NS								
Aroclor 1232	ND	NS	NS								
Aroclor 1242	ND	NS	NS								
Aroclor 1248	ND	NS	NS								
Aroclor 1254	ND	NS	NS								
Aroclor 1260	ND	NS	NS								

ND...this indicates no detection above reporting limit for this analyte

NS...this indicates that no regulatory limit has been established for this analyte

NA...this indicates the analyte was not a target for this sample

Grey shaded values represent concentration exceeding Unrestricted Use SCO

Blue shaded values represent concentration exceeding Residential SCO

This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit.

**Table 2 (Cont.)
Deep Soil Samples Organic Analytical Results
2016-2040 Westchester Ave, Bronx, NY**

Sample Identification	EP-1	EP-2	EP-3	EP-4	EP-5	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	Unrestricted SCO	Residential SCO
Sample Depth	6'	6'	6'	6'	6-8'	4'-6'	4'-6'	14'-16'	4'-6'	4'-6'	4'-6'	4'-6'	4'-6'	4'-6'		
Pesticides																
a BHC	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.097
Aldrin	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.019
b BHC	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.036	0.072
Biphenyl	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chlordane (alpha)	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.094	0.91
Chlordecone (Kepone)	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
d BHC g	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	100
Dibenzofuran	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	14
Dieldrin	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.039
Endosulfan I	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	4.8
Endosulfan II	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	4.8
Endosulfan Sulfate	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	4.8
Endrin	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	2.2
Endrin Aldehyde	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Furan	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Gama Chlordane	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Heptachlor	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.042	0.42
Heptachlor Epoxide	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Lindane	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.28
Methoxychlor	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
p,p-DDD	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	2.6
p,p-DDE	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	1.8
p,p-DDT	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	1.7
Parathion	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Polychlorinated biphenyls	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	1
Toxaphene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
PCBs																
Aroclor 1016	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aroclor 1221	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aroclor 1232	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aroclor 1242	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aroclor 1248	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aroclor 1254	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aroclor 1260	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS

ND...this indicates no detection above reporting limit for this analyte

NS...this indicates that no regulatory limit has been established for this analyte

NA...this indicates the analyte was not a target for this sample

Grey shaded values represent concentration exceeding Unrestricted Use SCO

Blue shaded values represent concentration exceeding Residential SCO

This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit.

Table 2 (Cont.)
Shallow Soil Metals Samples Inorganic Analytical Results
2016-2040 Westchester Ave, Bronx, NY

Sample Identification	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	Unrestricted Use Soil Cleanup Objectives (6 NYC RR Pt.375-6.8)	Restricted Use Soil Cleanup Objectives (6 NYC RR Pt.375-6.8b) - Residential
Sample Depth	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'		
Sample Date	9/15/2009	9/15/2009	9/14/2009	9/14/2009	9/14/2009	9/14/2009	9/14/2009	9/14/2009	9/14/2009		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	18,100 B	13,600 B	5260 B	19,300	6,240 B	7,380 B	12,100 B	22,000 B	11,700 B	NS	NS
Antimony	ND	ND	0.881	3.95 B	ND	ND	1.35	0.942	2.00	NS	NS
Arsenic	0.329 B	11.5 B	4.16 B	3.96	2.05 B	0.907 B	3.12 B	ND	0.724 B	13	16
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Barium	44.6	35.8	79.4	ND	73.2	59.9	98.9	53.5	88.1	350	350
Beryllium	0.386	0.170	0.458	1.37	0.298	0.256	0.438	0.455	0.353	7.2	14
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	2.5
Calcium	ND	ND	ND	43,400	50,800	65,200	ND	ND	ND	NS	NS
Chromium	37.2	4.84	13.8	18	16	18	26.7	40.3	22.2	30*	36*
Chromium Hexavalent	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	22
Chromium Trivalent	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	36
Cobalt	5.86 B	18.1 B	6.05 B	7.99 B	5.64 B	8.03 B	8.13 B	8.79 B	8.94 B	NS	NS
Copper	17.4	66.2	53.8	60.9	36.6	46.8	31.0	22.5	11.4	50	270
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	27	27
Iron	32600 B	41500 B	12100 B	16,200	12700 B	16600 B	19600 B	33000 B	14800 B	NS	NS
Lithium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Lead	11.0	87.3	117	116	64.3	34.9	165	7.38	7.55	63	400
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Magnesium	ND	7,970	ND	19,400	16,700	10,600	ND	ND	ND	NS	NS
Manganese	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,600	2,000
Mercury	0,021	0.073	0.043	0.037	0.025	0.023	0.134	ND	ND	0.18	0.81
Nickel	12.6	15.3	12.3	17.4	15.0	20.5	17.0	16.8	16.0	30	140
Potassium	1,240 B	881 B	2,320 B	3,750 B	2,750 B	2,100 B	2,970 B	2,310 B	1,500 B	NS	NS
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	36
Silver	ND	ND	0.29 B	0.353 B	0.202 B	0.113 B	0.169 B	ND	0.157 B	2	36
Sodium	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Technetium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Thallium	ND	0.849	1.01	1.53	ND	ND	ND	ND	ND	NS	NS
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Vanadium	48.8	128	31.5	34.7	48.5	59.6	39.2	47.1	20.9	NS	NS
Uranium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Zinc	34.5	88.6	65.7	260	73.1	60.1	94.4	37.0	72.1	109	2,200

B...analyte found in the analysis batch blank

ND...this indicates no detection above reporting limit for this analyte

NS...this indicates that no regulatory limit has been established for this analyte

*...standard for Chromium Trivalent

NA...this indicates the analyte was not a target for this sample

Grey shaded values represent concentration exceeding Unrestricted Unse SCO

Blue shaded values represent concentration exceeding Residnetial SCO

This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit.

**Table 2 (Cont.)
Deep Soil Metals Samples Inorganic Analytical Results
2016-2040 Westchester Ave, Bronx, NY**

Sample Identification	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	Unrestricted Use Soil Cleanup Objectives (6 NYC RR Pt.375-6.8)	Restricted Use Soil Cleanup Objectives (6 NYC RR Pt.375-6.8b) - Residential
Sample Depth	4'-6'	4'-6'	14'-16'	4'-6'	4'-6'	4'-6'	4'-6'	4'-6'	4'-6'		
Sample Date	9/15/2009	9/15/2009	9/14/2009	9/14/2009	9/14/2009	9/14/2009	9/14/2009	9/14/2009	9/14/2009		
Sample Matrix	Soil										
Units	mg/Kg	mg/Kg									
Aluminum	11000 B	11900 B	15200 B	42200 B	9580 B	6150 B	11400 B	13000 B	15200 B	NS	NS
Antimony	ND	0.596	ND	3.43	0.852	1.03	1.5	ND	0.96	NS	NS
Arsenic	3.88 B	2.5 B	0.523 B	ND	1.13 B	1.06 B	0.797 B	ND	ND	13	16
Boron	NA	NS	NS								
Barium	61.9	ND	ND	ND	92.5	61.2	98.1	98.8	61.9	350	350
Beryllium	0.696	0.671	0.613	0.885	0.385	0.246	0.331	0.418	0.384	7.2	14
Cadmium	ND	2.5	2.5								
Calcium	ND	ND	ND	ND	40,200	71,600	ND	ND	ND	NS	NS
Chromium	21.9	18.5	28.7	98.7	24.7	9.82	17.4	22.4	29	30*	36*
Chromium Hexavalent	NA	1	22								
Chromium Trivalent	NA	30	36								
Cobalt	10.5 B	7.03 B	13.2 B	12.4 B	8.31 B	3.88 B	6.98 B	10.8 B	5.33 B	NS	NS
Copper	19	16.9	39.9	34.8	28.1	7.33	13	29.6	10.5	50	270
Cyanide	NA	27	27								
Iron	25700 B	19600 B	30100 B	53200 B	17600 B	9780 B	14800 B	24100 B	24000 B	NS	NS
Lithium	NA	NS	NS								
Lead	7.85	9.61	73.3	21	101	5.65	8.79	5.89	15.5	63	400
Molybdenum	NA	NS	NS								
Magnesium	ND	ND	6,090	9,620	14,200	6,720	ND	ND	ND	NS	NS
Manganese	ND	1,600	2,000								
Mercury	ND	ND	ND	0.033	0.036	ND	ND	ND	ND	0.18	0.81
Nickel	14.1	13.7	24.6	75.4	20.2	7.7	15.3	17.9	11.1	30	140
Potassium	1,300 B	1,100 B	9390 B	1,280 B	3,840 B	2,280 B	1,270 B	5,850 B	1,020 B	NS	NS
Selenium	ND	3.9	36								
Silver	ND	ND	0.272 B	ND	0.216 B	0.252 B	0.174 B	0.146 B	ND	2	36
Sodium	ND	NS	NS								
Technetium	NA	NS	NS								
Thallium	ND	ND	2.25	ND	0.776	1.13	ND	3.04	ND	NS	NS
Tin	NA	NS	NS								
Vanadium	56.7	43.1	37.6	74.6	39.5	18.1	22	31.5	38.3	NS	NS
Uranium	NA	NS	NS								
Zinc	30.9	40.2	134	88.8	141	22.4	33.5	43	85.6	109	2,200

B...analyte found in the analysis batch blank

ND...this indicates no detection above reporting limit for this analyte

NS...this indicates that no regulatory limit has been established for this analyte

*....standard for Chromium Trivalent

NA...this indicates the analyte was not a target for this sample

Grey shaded values represent concentration exceeding Unrestricted Unse SCO

Blue shaded values represent concentration exceeding Residnetial SCO

This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit.

Table 3
Groundwater Samples Organic Analytical Results
2016-2040 Westchester Ave, Bronx, NY

Sample Identification	MW-2	MW-3	MW-4	NYSDEC TOGS 1.1.1 Groundwater Quality Standard
Sample Date	9/16/2009	9/17/2009	9/18/2009	
Sample Matrix	Water	Water	Water	
Units	ug/L	ug/L	ug/L	
Volatile Organic Compounds				
1,1,1,2-Tetrachloroethane	ND	ND	ND	5
1,1,1-Trichloroethane	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	1
1,1-Dichloroethane	ND	ND	ND	5
1,1-Dichloroethene	ND	ND	ND	5
1,1-Dichloropropene	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	5
1,2,3-Trichloropropane	ND	ND	ND	0.04
1,2,4-Trichlorobenzene	ND	ND	ND	5
1,2,4-Trimethylbenzene	ND	ND	ND	5
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.04
1,2-Dibromoethane	ND	ND	ND	0.0006
1,2-Dichlorobenzene	ND	ND	ND	3
1,2-Dichloroethane	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	1
1,3,5-Trimethylbenzene	ND	3.39	ND	5
1,3-Dichlorobenzene	ND	ND	ND	3
1,3-Dichloropropane	ND	ND	ND	5
1,4-Dichlorobenzene	ND	ND	ND	3
2,2-Dichloropropane	ND	ND	ND	5
2-Butanone	ND	ND	ND	50
2-Chlorotoluene	ND	ND	ND	5
2-Hexanone	ND	ND	ND	5
2-methyl-2-pentanone	ND	ND	ND	NS
4-Chlorotoluene	ND	ND	ND	5
4-Isopropyltoluene	ND	ND	ND	5
Acetone	ND	ND	ND	5
Acrylonitrile	ND	ND	ND	5
Benzene	ND	ND	ND	1
Benzoic Acid	ND	ND	ND	NS
Benzoic Acid	ND	ND	ND	NS
Bromobenzene	ND	ND	ND	5
Bromochloromethane	ND	ND	ND	5
Bromodichloromethane	ND	ND	ND	5
Bromoform	ND	ND	ND	5
Carbon tetrachloride	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	5
Chloroethane	ND	ND	ND	5
Chloroform	ND	ND	ND	7
cis-1,2-Dichloroethene	ND	ND	ND	5
cis-1,3-Dichloropropene	ND	ND	ND	0.4
Dibromochloromethane	ND	ND	ND	5
Dibromomethane	ND	ND	ND	5

Table 3 (Cont.)
Groundwater Samples Organic Analytical Results
2016-2040 Westchester Ave, Bronx, NY

Sample Identification	MW-2	MW-3	MW-4	GQS
Volatile Organic Compounds				
Dichlorodifluoromethane	ND	ND	ND	5
Ethylbenzene	ND	ND	ND	5
Hexachlorobutadiene	ND	ND	ND	0.5
Isopropylbenzene	ND	ND	ND	5
m,p-Xylene	ND	ND	ND	5
Methylene chloride	ND	ND	ND	5
Methyl-t-butyl ether	25.4	ND	ND	10
Naphthalene	ND	ND	ND	10
n-Butylbenzene	ND	ND	ND	5
n-Propylbenzene	ND	ND	ND	NS
o-Xylene	ND	ND	ND	5
sec-Butylbenzene	ND	ND	ND	5
Styrene	ND	ND	ND	5
tert-Butylbenzene	ND	ND	ND	5
Tetrachloroethene	ND	ND	ND	5
Tetrahydrofuran	ND	ND	ND	5
Toluene	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	5
trans-1,3-Dichloropropene	ND	ND	ND	0.4
trans-1,4-dichloro-2-butanone	ND	ND	ND	NS
Trichloroethene	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	2
Semivolatile Organic Compounds				
2,4,5-Trichlorophenol	ND	ND	ND	NS
2,4,6-Trichlorophenol	ND	ND	ND	NS
2,4-Dichlorophenol	ND	ND	ND	5
2,4-Dimethylphenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	10
2,4-Dinitrotoluene	ND	ND	ND	5
2,6-Dinitrotoluene	10.6	13.2	ND	5
2-Chloronaphthalene	ND	ND	ND	10
2-Chlorophenol	ND	ND	ND	NS
2-Methyl-4,6-dinitrophenol	ND	ND	ND	NS
2-Methylnaphthalene	ND	ND	ND	NS
2-Methylphenol	ND	ND	ND	NS
2-Nitroaniline	ND	ND	ND	5
2-Nitrophenol	ND	ND	ND	NS
3,3'-Dichlorobenzidene	ND	ND	ND	5
3,4-Methylphenol	ND	ND	ND	NS
3-Nitroaniline	ND	ND	ND	5
4-Bromophenyl phenyl ether	ND	ND	ND	0.04
4-Chloro-3-methylphenol	ND	ND	ND	NS
4-Chloroaniline	ND	ND	ND	5
4-Chlorophenol phenyl ether	ND	ND	ND	NS
4-Nitroaniline	ND	ND	ND	5
4-Nitrophenol	ND	ND	ND	NS
Acenaphthene	ND	ND	ND	20

Table 3 (Cont.)
Groundwater Samples Organic Analytical Results
2016-2040 Westchester Ave, Bronx, NY

Sample Identification	MW-2	MW-3	MW-4	GQS
Semivolatile Organic Compounds				
Acenaphthylene	ND	ND	ND	NS
Aniline	ND	ND	ND	5
Anthracene	ND	ND	ND	50
Benzidine	ND	ND	ND	5
Benzo(a)anthracene	ND	ND	ND	NS
Benzo(a)pyrene	ND	ND	ND	NS
Benzo(b)fluoranthene	ND	ND	ND	0.002
Benzo(g,h,i)perylene	ND	ND	ND	NS
Benzo(k)fluoranthene	ND	ND	ND	0.002
bis(2-Chloroethoxy)methane	ND	ND	ND	NS
bis(2-Chloroethyl)ether	ND	ND	ND	NS
bis(2-Chloroisopropyl)ether	ND	ND	ND	NS
bis(2-Ethylhexyl)phthalate	ND	ND	ND	5
Butyl benzyl phthalate	ND	ND	ND	50
Carbazol	ND	ND	ND	NS
Chrysene	ND	ND	ND	0.002
Dibenzo(a,h)anthracene	ND	ND	ND	NS
Dibenzofuran	ND	ND	ND	NS
Diethyl phthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	5
Di-n-butylphthalate	ND	48	ND	50
Di-n-octylphthalate	ND	ND	ND	50
Fluoranthene	ND	ND	ND	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	0.04
Hexachlorocyclopentadiene	ND	ND	ND	5
Hexachloroethane	ND	ND	ND	5
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.002
Isophorone	ND	ND	ND	50
Naphthalene	ND	ND	ND	10
Nitrobenzene	ND	ND	ND	0.4
N-Nitrosodi-n-propylamine	ND	ND	ND	NS
N-Nitrosodiphenylamine	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	1
Phenanthrene	ND	ND	ND	50
Phenol	ND	ND	ND	1
Pyrene	ND	ND	ND	50
Total VOCs	10.6	61.2	ND	NS
Pesticides				
4,4-DDD	ND	ND	ND	0.3
a BHC	ND	ND	ND	NS
Alachlor	ND	ND	ND	0.5
Aldrin	ND	ND	ND	NS
b BHC	ND	ND	ND	NS
Chlordane	ND	ND	ND	0.05
d BHC	ND	ND	ND	NS
Dieldrin	ND	ND	ND	0.004
Endosulfan I	ND	ND	ND	NS

**Table 3 (Cont.)
Groundwater Samples Organic Analytical Results
2016-2040 Westchester Ave, Bronx, NY**

Sample Identification	MW-2	MW-3	MW-4	GQS
Pesticides				
Endosulfan II	ND	ND	ND	NS
Endosulfan Sulfate	ND	ND	ND	NS
Endrin	ND	ND	ND	NS
Endrin Aldehyde	ND	ND	ND	5
Endrin Ketone	ND	ND	ND	5
Heptachlor	ND	ND	ND	0.04
Heptachlor Epoxide	ND	ND	ND	0.03
Lindane	ND	ND	ND	NS
Methoxychlor	ND	ND	ND	35
p,p-DDE	ND	ND	ND	0.2
p,p-DDT	ND	ND	ND	0.2
PCBs				
Aroclor 1016	ND	ND	ND	0.09
Aroclor 1221	ND	ND	ND	0.09
Aroclor 1232	ND	ND	ND	0.09
Aroclor 1242	ND	ND	ND	0.09
Aroclor 1248	ND	ND	ND	0.09
Aroclor 1254	ND	ND	ND	0.09
Aroclor 1260	ND	ND	ND	0.09

ND...this indicates no detection above reporting limit for this analyte

NS...this indicates that no regulatory limit has been established for this analyte

NA...this indicates the analyte was not a target for this sample

Shaded values represent concentration exceeding the GQS

This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit

Table 3 (Cont.)
Groundwater Metals Samples Inorganic Analytical Results (Unfiltered & Filtered)
2016-2040 Westchester Ave, Bronx, NY

Sample Identification	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4	NYSDEC TOGS 1.1.1 Groundwater Quality Standard
Sample Date	9/16/2009	9/16/2009	9/16/2009	9/16/2009	9/16/2009	9/16/2009	
Sample Matrix	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Aluminum	5.08	ND	1.24	ND	3.91	ND	NS
Antimony	ND	ND	ND	ND	ND	ND	0.003
Arsenic	0.016	ND	0.016	ND	ND	ND	0.025
Barium	0.162	0.092	0.085	0.04	0.086	0.082	1
Beryllium	ND	ND	ND	ND	ND	ND	0.003
Cadmium	ND	ND	ND	ND	ND	ND	0.005
Calcium	135	139	36.6	32.8	101	114	NS
Chromium	0.036	ND	ND	ND	ND	ND	0.05
Chromium Hexavalent	NA	NA	NA	NA	NA	NA	0.05
Cobalt	0.02	0.01	ND	ND	ND	ND	NS
Copper	0.026	ND	ND	ND	ND	ND	0.2
Iron	17	ND	3.41	1.32	15.6	ND	0.3
Lead	ND	ND	0.017	ND	ND	ND	0.025
Magnesium	111	109	15.1	14	27.6	24.2	35
Manganese	1.74	1.46	1.41	1.27	2.54	2.09	0.30
Mercury	ND	ND	ND	ND	ND	ND	0.0007
Nickel	0.084	0.023	0.016	ND	0.027	ND	0.1
Potassium	13.5	19.9	13.4	18.3	15.1	19.9	NS
Selenium	ND	0.026	ND	ND	ND	0.026	0.01
Silver	ND	ND	ND	ND	ND	ND	0.05
Sodium	63.5	73.8	9.77	11.7	35.2	43.8	20
Thallium	ND	ND	ND	ND	ND	ND	0.0005
Trivalent Chromium	NA	NA	NA	NA	NA	NA	0.05
Vanadium	0.013	ND	ND	ND	ND	ND	NS
Zinc	0.046	ND	0.088	ND	ND	ND	5

ND...this indicates no detection above reporting limit for this analyte

NS...this indicates that no regulatory limit has been established for this analyte

NA...this indicates the analyte was not a target for this sample

Shaded values represent concentration exceeding the GQS

This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit

Table 4
Soil Vapor Samples Organic Analytical Results
2026 Westchester Avenue, Bronx, NY

Sample ID	SV-1	SV-2	SV-3	SV-4	SV-5
Sampling Date	6/15/2012	6/15/2012	6/15/2012	6/15/2012	6/15/2012
GPS Coordinates	40.83312N	40.83310N	40.83342N	40.83341N	40.83343N
	73.85663W	73.85562W	73.85604W	73.85629W	73.856021W
Matrix	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Volatile Organics, EPA TO15 Full List (ug/m ³)					
1,1,1-Trichloroethane	<2.1	<2.0	<2.0	<4.7	<4.8
1,1,2,2-Tetrachloroethane	<3.5	<3.3	<3.4	<7.9	<8.0
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.1	<1.1	<1.1	<2.6	<2.6
1,1,2-Trichloroethane	<2.9	<2.8	<2.8	<6.5	<6.7
1,1-Dichloroethane	<1.0	<0.98	<0.99	<2.3	<2.4
1,1-Dichloroethylene	<1.3	<1.2	<1.2	<2.8	<2.9
1,2,4-Trichlorobenzene	<3.5	<3.3	<3.3	<7.8	<8.0
1,2,4-Trimethylbenzene	160	100	200	<2.8	190
1,2-Dibromoethane	<16	<16	<16	<37	<38
1,2-Dichlorobenzene	<3.2	<3.0	<3.1	<7.2	<7.3
1,2-Dichloroethane	<2.1	<2.0	<2.0	<4.7	<4.7
1,2-Dichloropropane	<2.2	<2.1	<2.1	<4.9	<5.0
1,2-Dichlorotetrafluoroethane	<2.5	<2.4	<2.4	<5.7	<5.8
1,3,5-Trimethylbenzene	39	25	52	<3.1	3.1
1,3-Butadiene	<1.4	<1.3	<1.3	<3.1	23
1,3-Dichlorobenzene	<2.3	<2.2	<2.2	<5.2	<5.3
1,4-Dichlorobenzene	<2.8	<2.7	<2.7	<6.3	<6.5
1,4-Dioxane	<6.9	<6.6	<6.6	<16	<16
2-Butanone	120	23	<2.4	150	39
2-Hexanone	26	<4.6	<4.6	<11	<11
4-Methyl-2-pentanone	<3.1	<3.0	<3.0	<7.1	<7.2
Acetone	870 B	480 B	970 B	1700 B	1500 B
Benzene	150	42	170	37	270
Benzyl chloride	<1.3	<1.3	<1.3	<3.0	<3.0
Bromodichloromethane	<3.2	3.0	<3.0	<7.1	<7.3
Bromoform	<4.0	<3.8	<3.8	<8.9	<9.1
Bromomethane	<0.99	<0.94	<0.95	<2.2	<2.3
Carbon disulfide	180	52	58	25	24
Carbon tetrachloride	<1.6	<1.5	<1.5	<3.6	<3.7
Chlorobenzene	<1.8	<1.7	<1.7	<4.0	<4.0
Chloroethane	<0.67	<0.64	<0.65	<1.5	<1.5
Chloroform	<1.6	<1.5	<1.5	<3.5	<3.6
Chloromethane	13	4.6	<1.3	<3.0	<3.0
cis-1,2-Dichloroethylene	<1.4	<1.4	<1.4	<3.2	<3.3
cis-1,3-Dichloropropylene	<2.4	<2.3	<2.3	<5.4	<5.5

Table 4 (cont.)
Soil Vapor Samples Organic Analytical Results
2026 Westchester Avenue, Bronx, NY

Sample ID	SV-1	SV-2	SV-3	SV-4	SV-5
Cyclohexane	22	<0.84	<27	<2.0	<2.0
Dibromochloromethane	<17	<16	<16	<38	<39
Dichlorodifluoromethane	<2.6	<2.5	<2.5	<5.9	<6.0
Ethyl acetate	<1.9	<1.8	<1.8	<4.3	<4.4
Ethyl Benzene	58	31	80	<3.7	74
Hexachlorobutadiene	<4.1	<3.9	<3.9	<9.2	<9.4
Isopropanol	<1.8	<1.7	<1.8	120	<4.2
Methyl Methacrylate	<8.7	<8.3	<8.4	<20	<20
Methyl tert-butyl ether (MTBE)	<0.92	<0.88	<0.88	<2.1	<2.1
Methylene chloride	27 B	13 B	<1.7	25 B	<4.1
n-Heptane	71	20	<1.0	<2.4	50
n-Hexane	140	26	360	<2.0	59
o-Xylene	86	49	120	<3.7	110
p- & m- Xylenes	230	130	300	<7.1	290
p-Ethyltoluene	100	66	140	<4.2	120
Propylene	<1.7	<1.6	<1.6	<3.8	<3.9
Styrene	<1.6	<1.6	<1.6	<3.7	<3.7
Tetrachloroethylene	<1.7	<1.6	<1.7	<3.9	<4.0
Tetrahydrofuran	63	<1.5	<1.5	<3.5	<3.6
Toluene	220	91	320	69	320
trans-1,2-Dichloroethylene	<1.0	<0.96	<0.97	<2.3	<2.3
trans-1,3-Dichloropropylene	<1.7	<1.7	<1.7	<3.9	<4.0
Trichloroethylene	<1.4	<1.3	<1.3	<3.1	<3.1
Trichlorofluoromethane (Freon 11)	<0.72	<0.68	<0.69	<1.6	<1.6
Vinyl acetate	<1.1	<1.1	<1.1	<2.5	<2.6
Vinyl Chloride	<1.3	<1.2	<1.3	<2.9	<3.0

B=analyte found in the analysis batch blank

NS=this indicates that no regulatory limit has been established for this analyte

¹Summary of Indoor and Outdoor Levels of Volatile Organic Compounds From Fuel Oil Heated Homes in NYS, 1997 to 2003. Unpublished. New York State Department of Health, Bureau of

²The ranges provided in the table represent the 25th percentile to 75th percentile, (middle half), of the results and are labeled as background. A single value is the minimum reporting limit for that compound, and indicates that more than 75% of the data are below the detection limit.

All reported values are in microgram per cubic meter (mcg/m³)

< Means "less than." The number following a "less than sign" (<) is the lowest level the Grey haded cell represent a concentration exceeding the NYSDEC Background Standards

NA-Not Applicable

APPENDICES

**APPENDIX A
PREVIOUS ENVIRONMENTAL AND GEOTECHNICAL
REPORTS (CD-ROM)**

APPENDIX B
PHOTOGRAPHS



GPR Survey



Installation of Soil Probes, Monitoring wells and Soil Vapor Implants

APPENDIX C
SOIL VAPOR SAMPLING LOG

Field Chain-of-Custody Record - AIR

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

YOUR INFORMATION Company: <u>Hydrotek Co.</u> Address: <u>15 Ocean Ave</u> <u>3xley N7</u> Phone No: <u>718 636 0800</u> Contact Person: <u>Paul Math.</u> <u>At the hydrotek per-12</u>		Report To: Company: <u>SAME</u> Address: <u>Hempstead</u> Phone No. _____ Attention: <u>Mushin</u> E-Mail Address: _____		Invoice To: Company: <u>SAME</u> Address: <u>2026 Westchester Ave</u> <u>Greenx NY</u> Purchase Order No. <u>5077</u> Samples from: <u>CT</u> <u>NY</u> <u>NJ</u>		YOUR PROJECT ID # <u>120112</u> 2026 Westchester Ave Greenx NY Purchase Order No. <u>5077</u>		Turn-Around Time RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard(5-7 Days) <input type="checkbox"/>		Report Type/Deliverables Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input type="checkbox"/> NJDEP Reduced <input type="checkbox"/> Electronic Deliverables: <input checked="" type="checkbox"/> EDD (Specify Type) _____ Standard Excel _____ Regulatory Comparison Excel _____	
---	--	--	--	---	--	--	--	--	--	---	--

TO15 Volatiles and Other Gas Analyses
EPA TO-14A List

TO15 List
EPA TO-15 List
NYSDEC VI list
NYSDEC STARS List
Project Specific List by TO-15
NJDEP Target List
CTDEP RCP Target List

Air Matrix Codes
 AI- INDOOR Ambient Air
 AO- OUTDOOR Amb. Air
 AE- Vapor Extraction Well/
 Process Gas/Effluent
 AS- SOIL Vapor/Sub-Slab

Detection Limits Required
 ≤ 1 ug/m³
 NYSDEC VI Limits
 (VI report attached)
 NJDEP low level
 Routine Survey
 Other 0.5 ug/m³

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Choose Analyses Needed from the Menu Above and Enter Below	Sampling Media
SV-1	6/15/12	AS	-29	-4	TO-15	6 Liter Summa canister
SV-2			-30	-5.5		Tedlar Bag
SV-3			-30+	-7		6 Liter Summa canister
SV-4			-30	-22.5		Tedlar Bag
SV-5			-30	-20		6 Liter Summa canister
OA-1		AO	-30	-0.1		Tedlar Bag
						6 Liter Summa canister
						Tedlar Bag
						6 Liter Summa canister
						Tedlar Bag
						6 Liter Summa canister
						Tedlar Bag
						6 Liter Summa canister
						Tedlar Bag

Comments
1045

Samples Relinquished By Al Bady Date/Time 6-18-12
 Samples Received By J. Math Date/Time 6/18/12 - 1645

Samples Relinquished By _____ Date/Time _____
 Samples Received in LAB by _____ Date/Time _____

APPENDIX D
LABORATORY DATA DELIVERABLES FOR SOIL VAPOR
ANALYTICAL DATA

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Hydro Tech Environmental (Brooklyn)

15 Ocean Avenue

Brooklyn NY, 11225

Attention: Paul Matli

Report Date: 06/22/2012

Client Project ID: #120112 202 6 Westchester Ave Bronx NY

York Project (SDG) No.: 12F0567

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 06/22/2012
Client Project ID: #120112 202 6 Westchester Ave Bronx NY
York Project (SDG) No.: 12F0567

Hydro Tech Environmental (Brooklyn)

15 Ocean Avenue
Brooklyn NY, 11225
Attention: Paul Matli

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 18, 2012 and listed below. The project was identified as your project: **#120112 202 6 Westchester Ave Bronx NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
12F0567-01	SV-1	Soil Vapor	06/15/2012	06/18/2012
12F0567-02	SV-2	Soil Vapor	06/15/2012	06/18/2012
12F0567-03	SV-3	Soil Vapor	06/15/2012	06/18/2012
12F0567-04	SV-4	Soil Vapor	06/15/2012	06/18/2012
12F0567-05	SV-5	Soil Vapor	06/15/2012	06/18/2012
12F0567-06	OA-1	Outdoor Ambient Ai	06/15/2012	06/18/2012

General Notes for York Project (SDG) No.: 12F0567

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Date: 06/22/2012

Robert Q. Bradley
Executive Vice President / Laboratory Director

YORK

Sample Information

Client Sample ID: SV-1

York Sample ID: 12F0567-01

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	2.1	12	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	3.5	15	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.1	16	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	2.9	12	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	1.0	8.6	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	1.3	8.4	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	3.5	16	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
95-63-6	1,2,4-Trimethylbenzene	160		ug/m ³	1.3	52	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	16	16	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	3.2	13	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	2.1	8.6	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	2.2	9.8	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	2.5	15	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
108-67-8	1,3,5-Trimethylbenzene	39		ug/m ³	1.4	21	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
106-99-0	1,3-Butadiene	ND		ug/m ³	1.4	9.2	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	2.3	13	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	2.8	13	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
123-91-1	1,4-Dioxane	ND		ug/m ³	6.9	77	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
78-93-3	2-Butanone	120		ug/m ³	2.5	6.3	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
591-78-6	2-Hexanone	26		ug/m ³	4.8	17	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	3.1	8.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
67-64-1	Acetone	870	B	ug/m ³	1.6	5.1	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
71-43-2	Benzene	150		ug/m ³	1.0	6.8	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
100-44-7	Benzyl chloride	ND		ug/m ³	1.3	11	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-27-4	Bromodichloromethane	ND		ug/m ³	3.2	13	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-25-2	Bromoform	ND		ug/m ³	4.0	22	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
74-83-9	Bromomethane	ND		ug/m ³	0.99	8.3	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-15-0	Carbon disulfide	180		ug/m ³	0.79	6.6	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
56-23-5	Carbon tetrachloride	ND		ug/m ³	1.6	6.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
108-90-7	Chlorobenzene	ND		ug/m ³	1.8	9.8	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-00-3	Chloroethane	ND		ug/m ³	0.67	5.6	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
67-66-3	Chloroform	ND		ug/m ³	1.6	10	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
74-87-3	Chloromethane	13		ug/m ³	1.3	4.4	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	1.4	8.4	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD

Sample Information

Client Sample ID: SV-1

York Sample ID: 12F0567-01

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	2.4	9.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
110-82-7	Cyclohexane	22		ug/m ³	0.88	7.3	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
124-48-1	Dibromochloromethane	ND		ug/m ³	17	17	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	2.6	11	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
141-78-6	Ethyl acetate	ND		ug/m ³	1.9	7.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
100-41-4	Ethyl Benzene	58		ug/m ³	1.7	9.2	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	4.1	23	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
67-63-0	Isopropanol	ND		ug/m ³	1.8	5.2	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
80-62-6	Methyl Methacrylate	ND		ug/m ³	8.7	8.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.92	7.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-09-2	Methylene chloride	27	B	ug/m ³	1.8	7.4	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
142-82-5	n-Heptane	71		ug/m ³	1.0	8.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
110-54-3	n-Hexane	140		ug/m ³	0.90	7.5	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
95-47-6	o-Xylene	86		ug/m ³	1.7	9.2	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
1330-20-7P/M	p- & m- Xylenes	230		ug/m ³	3.1	9.2	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
622-96-8	p-Ethyltoluene	100		ug/m ³	1.9	52	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
115-07-01	Propylene	ND		ug/m ³	1.7	3.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
100-42-5	Styrene	ND		ug/m ³	1.6	9.1	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
127-18-4	Tetrachloroethylene	ND		ug/m ³	1.7	14	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
109-99-9	Tetrahydrofuran	63		ug/m ³	1.6	6.3	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
108-88-3	Toluene	220		ug/m ³	1.9	8.0	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	1.0	8.4	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	1.7	9.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
79-01-6	Trichloroethylene	ND		ug/m ³	1.4	5.7	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	0.72	12	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
108-05-4	Vinyl acetate	ND		ug/m ³	1.1	15	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
75-01-4	Vinyl Chloride	ND		ug/m ³	1.3	11	20.91	EPA TO-15	06/20/2012 09:00	06/21/2012 01:39	TD
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	<i>Surrogate: p-Bromofluorobenzene</i>	98.8 %			70-130						

Sample Information

Client Sample ID: SV-2

York Sample ID: 12F0567-02

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: SV-2

York Sample ID: 12F0567-02

<u>York Project (SDG) No.</u> 12F0567	<u>Client Project ID</u> #120112 202 6 Westchester Ave Bronx NY	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> June 15, 2012 3:00 pm	<u>Date Received</u> 06/18/2012
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Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	2.0	11	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	3.3	14	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.1	16	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	2.8	11	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.98	8.2	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	1.2	8.0	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	3.3	15	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
95-63-6	1,2,4-Trimethylbenzene	100		ug/m ³	1.2	50	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	16	16	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	3.0	12	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	2.0	8.2	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	2.1	9.4	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	2.4	14	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
108-67-8	1,3,5-Trimethylbenzene	25		ug/m ³	1.3	20	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
106-99-0	1,3-Butadiene	ND		ug/m ³	1.3	8.8	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	2.2	12	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	2.7	12	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
123-91-1	1,4-Dioxane	ND		ug/m ³	6.6	73	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
78-93-3	2-Butanone	23		ug/m ³	2.4	6.0	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
591-78-6	2-Hexanone	ND		ug/m ³	4.6	17	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	3.0	8.3	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
67-64-1	Acetone	480	B	ug/m ³	1.5	4.8	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
71-43-2	Benzene	42		ug/m ³	0.97	6.5	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
100-44-7	Benzyl chloride	ND		ug/m ³	1.3	10	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-27-4	Bromodichloromethane	ND		ug/m ³	3.0	13	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-25-2	Bromoform	ND		ug/m ³	3.8	21	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
74-83-9	Bromomethane	ND		ug/m ³	0.94	7.9	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-15-0	Carbon disulfide	52		ug/m ³	0.76	6.3	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
56-23-5	Carbon tetrachloride	ND		ug/m ³	1.5	6.4	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
108-90-7	Chlorobenzene	ND		ug/m ³	1.7	9.3	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-00-3	Chloroethane	ND		ug/m ³	0.64	5.3	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
67-66-3	Chloroform	ND		ug/m ³	1.5	9.9	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
74-87-3	Chloromethane	4.6		ug/m ³	1.3	4.2	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	1.4	8.0	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	2.3	9.2	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
110-82-7	Cyclohexane	ND		ug/m ³	0.84	7.0	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD

Sample Information

Client Sample ID: SV-2

York Sample ID: 12F0567-02

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/m ³	16	16	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	2.5	10	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
141-78-6	Ethyl acetate	ND		ug/m ³	1.8	7.3	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
100-41-4	Ethyl Benzene	31		ug/m ³	1.6	8.8	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	3.9	22	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
67-63-0	Isopropanol	ND		ug/m ³	1.7	5.0	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
80-62-6	Methyl Methacrylate	ND		ug/m ³	8.3	8.3	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.88	7.3	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-09-2	Methylene chloride	13	B	ug/m ³	1.7	7.0	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
142-82-5	n-Heptane	20		ug/m ³	1.0	8.3	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
110-54-3	n-Hexane	26		ug/m ³	0.86	7.1	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
95-47-6	o-Xylene	49		ug/m ³	1.6	8.8	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
1330-20-7P/M	p- & m- Xylenes	130		ug/m ³	3.0	8.8	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
622-96-8	p-Ethyltoluene	66		ug/m ³	1.8	50	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
115-07-01	Propylene	ND		ug/m ³	1.6	3.5	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
100-42-5	Styrene	ND		ug/m ³	1.6	8.6	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
127-18-4	Tetrachloroethylene	ND		ug/m ³	1.6	14	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
109-99-9	Tetrahydrofuran	ND		ug/m ³	1.5	6.0	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
108-88-3	Toluene	91		ug/m ³	1.8	7.6	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.96	8.0	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	1.7	9.2	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
79-01-6	Trichloroethylene	ND		ug/m ³	1.3	5.4	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	0.68	11	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
108-05-4	Vinyl acetate	ND		ug/m ³	1.1	14	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
75-01-4	Vinyl Chloride	ND		ug/m ³	1.2	10	19.92	EPA TO-15	06/20/2012 09:00	06/21/2012 02:25	TD
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: p-Bromofluorobenzene	106 %			70-130						

Sample Information

Client Sample ID: SV-3

York Sample ID: 12F0567-03

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SV-3

York Sample ID: 12F0567-03

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	2.0	11	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	3.4	14	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.1	16	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	2.8	11	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.99	8.3	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	1.2	8.1	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	3.3	15	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
95-63-6	1,2,4-Trimethylbenzene	200		ug/m ³	1.2	50	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	16	16	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	3.1	12	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	2.0	8.3	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	2.1	9.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	2.4	14	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
108-67-8	1,3,5-Trimethylbenzene	52		ug/m ³	1.3	20	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
106-99-0	1,3-Butadiene	ND		ug/m ³	1.3	8.9	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	2.2	12	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	2.7	12	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
123-91-1	1,4-Dioxane	ND		ug/m ³	6.6	74	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
78-93-3	2-Butanone	ND		ug/m ³	2.4	6.0	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
591-78-6	2-Hexanone	ND		ug/m ³	4.6	17	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	3.0	8.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
67-64-1	Acetone	970	B	ug/m ³	1.5	4.9	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
71-43-2	Benzene	170		ug/m ³	0.98	6.5	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
100-44-7	Benzyl chloride	ND		ug/m ³	1.3	11	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-27-4	Bromodichloromethane	ND		ug/m ³	3.0	13	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-25-2	Bromoform	ND		ug/m ³	3.8	21	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
74-83-9	Bromomethane	ND		ug/m ³	0.95	7.9	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-15-0	Carbon disulfide	58		ug/m ³	0.76	6.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
56-23-5	Carbon tetrachloride	ND		ug/m ³	1.5	6.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
108-90-7	Chlorobenzene	ND		ug/m ³	1.7	9.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-00-3	Chloroethane	ND		ug/m ³	0.65	5.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
67-66-3	Chloroform	ND		ug/m ³	1.5	10	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
74-87-3	Chloromethane	ND		ug/m ³	1.3	4.2	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	1.4	8.1	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD

Sample Information

Client Sample ID: SV-3

York Sample ID: 12F0567-03

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	2.3	9.3	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
110-82-7	Cyclohexane	27		ug/m ³	0.84	7.0	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
124-48-1	Dibromochloromethane	ND		ug/m ³	16	16	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	2.5	10	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
141-78-6	Ethyl acetate	ND		ug/m ³	1.8	7.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
100-41-4	Ethyl Benzene	80		ug/m ³	1.6	8.9	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	3.9	22	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
67-63-0	Isopropanol	ND		ug/m ³	1.8	5.0	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
80-62-6	Methyl Methacrylate	ND		ug/m ³	8.4	8.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.88	7.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-09-2	Methylene chloride	ND		ug/m ³	1.7	7.1	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
142-82-5	n-Heptane	ND		ug/m ³	1.0	8.4	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
110-54-3	n-Hexane	360		ug/m ³	0.86	7.2	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
95-47-6	o-Xylene	120		ug/m ³	1.6	8.9	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
1330-20-7P/M	p- & m- Xylenes	300		ug/m ³	3.0	8.9	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
622-96-8	p-Ethyltoluene	140		ug/m ³	1.8	50	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
115-07-01	Propylene	ND		ug/m ³	1.6	3.5	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
100-42-5	Styrene	ND		ug/m ³	1.6	8.7	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
127-18-4	Tetrachloroethylene	ND		ug/m ³	1.7	14	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
109-99-9	Tetrahydrofuran	ND		ug/m ³	1.5	6.0	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
108-88-3	Toluene	320		ug/m ³	1.8	7.7	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.97	8.1	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	1.7	9.3	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
79-01-6	Trichloroethylene	ND		ug/m ³	1.3	5.5	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	0.69	11	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
108-05-4	Vinyl acetate	ND		ug/m ³	1.1	14	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
75-01-4	Vinyl Chloride	ND		ug/m ³	1.3	10	20.08	EPA TO-15	06/20/2012 09:00	06/21/2012 03:10	TD
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	Surrogate: p-Bromofluorobenzene	103 %	70-130								

Sample Information

Client Sample ID: SV-4

York Sample ID: 12F0567-04

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: SV-4

York Sample ID: 12F0567-04

<u>York Project (SDG) No.</u> 12F0567	<u>Client Project ID</u> #120112 202 6 Westchester Ave Bronx NY	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> June 15, 2012 3:00 pm	<u>Date Received</u> 06/18/2012
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Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	4.7	26	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	7.9	33	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	2.6	37	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	6.5	26	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	2.3	19	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	2.8	19	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	7.8	36	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	2.8	120	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	37	37	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	7.2	29	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	4.7	19	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	4.9	22	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	5.7	33	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	3.1	47	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
106-99-0	1,3-Butadiene	ND		ug/m ³	3.1	21	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	5.2	29	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	6.3	29	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
123-91-1	1,4-Dioxane	ND		ug/m ³	16	170	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
78-93-3	2-Butanone	150		ug/m ³	5.7	14	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
591-78-6	2-Hexanone	ND		ug/m ³	11	39	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	7.1	20	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
67-64-1	Acetone	1700	B	ug/m ³	8.8	28	117.75	EPA TO-15	06/20/2012 09:00	06/21/2012 17:46	TD
71-43-2	Benzene	37		ug/m ³	2.3	15	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
100-44-7	Benzyl chloride	ND		ug/m ³	3.0	25	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-27-4	Bromodichloromethane	ND		ug/m ³	7.1	30	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-25-2	Bromoform	ND		ug/m ³	8.9	50	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
74-83-9	Bromomethane	ND		ug/m ³	2.2	19	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-15-0	Carbon disulfide	25		ug/m ³	1.8	15	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
56-23-5	Carbon tetrachloride	ND		ug/m ³	3.6	15	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
108-90-7	Chlorobenzene	ND		ug/m ³	4.0	22	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-00-3	Chloroethane	ND		ug/m ³	1.5	13	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
67-66-3	Chloroform	ND		ug/m ³	3.5	23	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
74-87-3	Chloromethane	ND		ug/m ³	3.0	9.9	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	3.2	19	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	5.4	22	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
110-82-7	Cyclohexane	ND		ug/m ³	2.0	16	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD

Sample Information

Client Sample ID: SV-4

York Sample ID: 12F0567-04

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/m ³	38	38	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	5.9	24	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
141-78-6	Ethyl acetate	ND		ug/m ³	4.3	17	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
100-41-4	Ethyl Benzene	ND		ug/m ³	3.7	21	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	9.2	51	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
67-63-0	Isopropanol	120		ug/m ³	4.1	12	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
80-62-6	Methyl Methacrylate	ND		ug/m ³	20	20	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	2.1	17	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-09-2	Methylene chloride	25	B	ug/m ³	4.0	17	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
142-82-5	n-Heptane	ND		ug/m ³	2.4	20	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
110-54-3	n-Hexane	ND		ug/m ³	2.0	17	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
95-47-6	o-Xylene	ND		ug/m ³	3.7	21	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
1330-20-7P/M	p- & m- Xylenes	ND		ug/m ³	7.1	21	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
622-96-8	p-Ethyltoluene	ND		ug/m ³	4.2	120	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
115-07-01	Propylene	ND		ug/m ³	3.8	8.2	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
100-42-5	Styrene	ND		ug/m ³	3.7	20	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
127-18-4	Tetrachloroethylene	ND		ug/m ³	3.9	32	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
109-99-9	Tetrahydrofuran	ND		ug/m ³	3.5	14	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
108-88-3	Toluene	69		ug/m ³	4.3	18	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	2.3	19	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	3.9	22	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
79-01-6	Trichloroethylene	ND		ug/m ³	3.1	13	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	1.6	27	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
108-05-4	Vinyl acetate	ND		ug/m ³	2.5	34	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
75-01-4	Vinyl Chloride	ND		ug/m ³	2.9	24	47.1	EPA TO-15	06/20/2012 09:00	06/21/2012 03:56	TD
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	Surrogate: p-Bromofluorobenzene	89.0 %	70-130								

Sample Information

Client Sample ID: SV-5

York Sample ID: 12F0567-05

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: SV-5

York Sample ID: 12F0567-05

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	4.8	27	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	8.0	34	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	2.6	37	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	6.7	27	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	2.4	20	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	2.9	19	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	8.0	36	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
95-63-6	1,2,4-Trimethylbenzene	190		ug/m ³	2.9	120	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	38	38	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	7.3	29	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	4.7	20	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	5.0	23	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	5.8	34	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	3.1	48	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
106-99-0	1,3-Butadiene	23		ug/m ³	3.2	21	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	5.3	29	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	6.5	29	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
123-91-1	1,4-Dioxane	ND		ug/m ³	16	180	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
78-93-3	2-Butanone	39		ug/m ³	5.8	14	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
591-78-6	2-Hexanone	ND		ug/m ³	11	40	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	7.2	20	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
67-64-1	Acetone	1500	B	ug/m ³	3.6	12	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
71-43-2	Benzene	270		ug/m ³	2.3	16	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
100-44-7	Benzyl chloride	ND		ug/m ³	3.0	25	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-27-4	Bromodichloromethane	ND		ug/m ³	7.3	30	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-25-2	Bromoform	ND		ug/m ³	9.1	50	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
74-83-9	Bromomethane	ND		ug/m ³	2.3	19	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-15-0	Carbon disulfide	24		ug/m ³	1.8	15	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
56-23-5	Carbon tetrachloride	ND		ug/m ³	3.7	15	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
108-90-7	Chlorobenzene	ND		ug/m ³	4.0	22	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-00-3	Chloroethane	ND		ug/m ³	1.5	13	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
67-66-3	Chloroform	ND		ug/m ³	3.6	24	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
74-87-3	Chloromethane	ND		ug/m ³	3.0	10	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	3.3	19	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	5.5	22	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
110-82-7	Cyclohexane	ND		ug/m ³	2.0	17	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD

Sample Information

Client Sample ID: SV-5

York Sample ID: 12F0567-05

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Soil Vapor

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/m ³	39	39	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	6.0	24	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
141-78-6	Ethyl acetate	ND		ug/m ³	4.4	18	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
100-41-4	Ethyl Benzene	74		ug/m ³	3.8	21	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	9.4	52	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
67-63-0	Isopropanol	ND		ug/m ³	4.2	12	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
80-62-6	Methyl Methacrylate	ND		ug/m ³	20	20	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	2.1	18	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-09-2	Methylene chloride	ND		ug/m ³	4.1	17	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
142-82-5	n-Heptane	50		ug/m ³	2.4	20	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
110-54-3	n-Hexane	59		ug/m ³	2.1	17	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
95-47-6	o-Xylene	110		ug/m ³	3.8	21	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
1330-20-7P/M	p- & m- Xylenes	290		ug/m ³	7.2	21	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
622-96-8	p-Ethyltoluene	120		ug/m ³	4.3	120	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
115-07-01	Propylene	ND		ug/m ³	3.9	8.4	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
100-42-5	Styrene	ND		ug/m ³	3.7	21	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
127-18-4	Tetrachloroethylene	ND		ug/m ³	4.0	33	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
109-99-9	Tetrahydrofuran	ND		ug/m ³	3.6	14	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
108-88-3	Toluene	320		ug/m ³	4.4	18	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	2.3	19	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	4.0	22	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
79-01-6	Trichloroethylene	ND		ug/m ³	3.1	13	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	1.6	27	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
108-05-4	Vinyl acetate	ND		ug/m ³	2.6	34	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
75-01-4	Vinyl Chloride	ND		ug/m ³	3.0	25	48	EPA TO-15	06/20/2012 09:00	06/21/2012 04:41	TD
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	<i>Surrogate: p-Bromofluorobenzene</i>	102 %	70-130								

Sample Information

Client Sample ID: OA-1

York Sample ID: 12F0567-06

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
outdoor Ambient A

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: OA-1

York Sample ID: 12F0567-06

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
outdoor Ambient A

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.067	0.37	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.11	0.47	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.036	0.52	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.092	0.37	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.033	0.27	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.040	0.27	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.11	0.50	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	0.040	1.7	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.52	0.52	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.10	0.41	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.066	0.27	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.069	0.31	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.081	0.47	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.043	0.67	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
106-99-0	1,3-Butadiene	ND		ug/m ³	0.044	0.29	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.073	0.41	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.090	0.41	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
123-91-1	1,4-Dioxane	ND		ug/m ³	0.22	2.4	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
78-93-3	2-Butanone	0.42		ug/m ³	0.080	0.20	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
591-78-6	2-Hexanone	ND		ug/m ³	0.15	0.56	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.10	0.28	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
67-64-1	Acetone	4.4	B	ug/m ³	0.050	0.16	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
71-43-2	Benzene	ND		ug/m ³	0.032	0.22	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
100-44-7	Benzyl chloride	ND		ug/m ³	0.042	0.35	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.10	0.42	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-25-2	Bromoform	ND		ug/m ³	0.13	0.70	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
74-83-9	Bromomethane	ND		ug/m ³	0.032	0.26	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-15-0	Carbon disulfide	ND		ug/m ³	0.025	0.21	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.051	0.21	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
108-90-7	Chlorobenzene	ND		ug/m ³	0.056	0.31	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-00-3	Chloroethane	ND		ug/m ³	0.021	0.18	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
67-66-3	Chloroform	ND		ug/m ³	0.050	0.33	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
74-87-3	Chloromethane	ND		ug/m ³	0.042	0.14	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.046	0.27	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD

Sample Information

Client Sample ID: OA-1

York Sample ID: 12F0567-06

York Project (SDG) No.
12F0567

Client Project ID
#120112 202 6 Westchester Ave Bronx NY

Matrix
Outdoor Ambient A

Collection Date/Time
June 15, 2012 3:00 pm

Date Received
06/18/2012

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.077	0.31	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
110-82-7	Cyclohexane	ND		ug/m ³	0.028	0.23	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
124-48-1	Dibromochloromethane	ND		ug/m ³	0.54	0.54	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	0.084	0.34	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
141-78-6	Ethyl acetate	ND		ug/m ³	0.061	0.24	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
100-41-4	Ethyl Benzene	ND		ug/m ³	0.053	0.29	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.13	0.72	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
67-63-0	Isopropanol	ND		ug/m ³	0.058	0.17	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.28	0.28	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.029	0.24	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-09-2	Methylene chloride	1.6	B	ug/m ³	0.057	0.24	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
142-82-5	n-Heptane	ND		ug/m ³	0.033	0.28	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
110-54-3	n-Hexane	0.48		ug/m ³	0.029	0.24	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
95-47-6	o-Xylene	ND		ug/m ³	0.053	0.29	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
1330-20-7P/M	p- & m- Xylenes	ND		ug/m ³	0.10	0.29	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
622-96-8	p-Ethyltoluene	ND		ug/m ³	0.060	1.7	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
115-07-01	Propylene	ND		ug/m ³	0.054	0.12	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
100-42-5	Styrene	ND		ug/m ³	0.052	0.29	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
127-18-4	Tetrachloroethylene	ND		ug/m ³	0.055	0.46	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
109-99-9	Tetrahydrofuran	ND		ug/m ³	0.050	0.20	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
108-88-3	Toluene	ND		ug/m ³	0.061	0.26	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.032	0.27	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.055	0.31	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
79-01-6	Trichloroethylene	ND		ug/m ³	0.044	0.18	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	0.023	0.38	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
108-05-4	Vinyl acetate	ND		ug/m ³	0.036	0.48	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
75-01-4	Vinyl Chloride	ND		ug/m ³	0.042	0.35	0.66666	EPA TO-15	06/20/2012 09:00	06/21/2012 05:41	TD
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: p-Bromofluorobenzene	91.7 %			70-130						

Analytical Batch Summary

Batch ID: BF20833

Preparation Method: EPA TO15 PREP

Prepared By: TD

YORK Sample ID	Client Sample ID	Preparation Date
12F0567-01	SV-1	06/20/12
12F0567-02	SV-2	06/20/12
12F0567-03	SV-3	06/20/12
12F0567-04	SV-4	06/20/12
12F0567-05	SV-5	06/20/12
12F0567-06	OA-1	06/20/12
BF20833-BLK1	Blank	06/20/12
BF20833-BS1	LCS	06/20/12

Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Flag	RPD	
		Limit			Result	Limits		RPD	Limit

Batch BF20833 - EPA TO15 PREP

Blank (BF20833-BLK1)

Prepared & Analyzed: 06/20/2012

Vinyl Chloride	ND	0.52	ug/m ³						
Vinyl acetate	ND	0.72	"						
Trichloroethylene	ND	0.27	"						
trans-1,3-Dichloropropylene	ND	0.46	"						
trans-1,2-Dichloroethylene	ND	0.40	"						
Toluene	ND	0.38	"						
Tetrahydrofuran	ND	0.30	"						
Tetrachloroethylene	ND	0.69	"						
Styrene	ND	0.43	"						
Propylene	ND	0.18	"						
p-Ethyltoluene	ND	2.5	"						
p- & m- Xylenes	ND	0.44	"						
o-Xylene	ND	0.44	"						
n-Hexane	ND	0.36	"						
n-Heptane	ND	0.42	"						
Methylene chloride	0.99	0.35	"						
Methyl tert-butyl ether (MTBE)	ND	0.37	"						
4-Methyl-2-pentanone	ND	0.42	"						
Isopropanol	ND	0.25	"						
Hexachlorobutadiene	ND	1.1	"						
Ethyl Benzene	ND	0.44	"						
Ethyl acetate	ND	0.37	"						
Cyclohexane	ND	0.35	"						
cis-1,3-Dichloropropylene	ND	0.46	"						
cis-1,2-Dichloroethylene	ND	0.40	"						
Chloromethane	ND	0.21	"						
Chloroform	ND	0.50	"						
Chloroethane	ND	0.27	"						
Carbon tetrachloride	ND	0.32	"						
Carbon disulfide	ND	0.32	"						
Bromomethane	ND	0.39	"						
Bromoform	ND	1.1	"						
Bromodichloromethane	ND	0.63	"						
Benzyl chloride	ND	0.53	"						
Benzene	ND	0.32	"						
Acetone	0.58	0.24	"						
2-Hexanone	ND	0.83	"						
2-Butanone	ND	0.30	"						
1,4-Dioxane	ND	3.7	"						
1,4-Dichlorobenzene	ND	0.61	"						
1,3-Dichlorobenzene	ND	0.61	"						
1,3-Butadiene	ND	0.44	"						
1,3,5-Trimethylbenzene	ND	1.0	"						
1,2-Dichlorotetrafluoroethane	ND	0.71	"						
1,2-Dichloropropane	ND	0.47	"						
1,2-Dichloroethane	ND	0.41	"						
1,2-Dichlorobenzene	ND	0.61	"						
1,2,4-Trimethylbenzene	ND	2.5	"						
1,2,4-Trichlorobenzene	ND	0.75	"						
1,1-Dichloroethylene	ND	0.40	"						
1,1-Dichloroethane	ND	0.41	"						
Trichlorofluoromethane (Freon 11)	ND	0.57	"						
1,1,2-Trichloroethane	ND	0.55	"						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.78	"						

Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20833 - EPA TO15 PREP											
Blank (BF20833-BLK1)											
						Prepared & Analyzed: 06/20/2012					
1,1,2,2-Tetrachloroethane	ND	0.70	ug/m ³								
1,1,1-Trichloroethane	ND	0.55	"								
Dichlorodifluoromethane	ND	0.50	"								
1,2-Dibromoethane	ND	0.78	"								
Dibromochloromethane	ND	0.82	"								
Methyl Methacrylate	ND	0.42	"								
Chlorobenzene	ND	0.47	"								
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.15</i>		<i>ppbv</i>	<i>10.0</i>		<i>91.5</i>	<i>70-130</i>				
LCS (BF20833-BS1)											
						Prepared & Analyzed: 06/20/2012					
Vinyl Chloride	9.67		ppbv	10.1		95.7	70-130				
Vinyl acetate	10.4		"	9.70		107	58.1-135				
Trichloroethylene	10.3		"	10.2		101	70-130				
trans-1,3-Dichloropropylene	11.5		"	9.90		116	62-135				
trans-1,2-Dichloroethylene	9.19		"	9.50		96.7	58.3-130				
Toluene	12.0		"	10.8		111	64.9-126				
Tetrahydrofuran	13.2		"	10.2		129	44.6-146				
Tetrachloroethylene	10.6		"	10.5		101	70-130				
Styrene	13.2		"	10.7		123	66.4-132				
Propylene	10.5		"	11.0		95.5	62.4-150				
p-Ethyltoluene	12.0		"	10.4		115	73.8-146				
p- & m- Xylenes	23.6		"	21.0		112	56.6-136				
o-Xylene	12.4		"	10.8		115	67.8-133				
n-Hexane	10.8		"	10.3		105	59.7-130				
n-Heptane	11.6		"	10.4		111	62.3-134				
Methylene chloride	8.34		"	10.0		83.4	62.6-130				
Methyl tert-butyl ether (MTBE)	10.7		"	10.2		105	60.7-139				
4-Methyl-2-pentanone	10.6		"	10.0		106	64.5-158				
Isopropanol	11.7		"	9.90		118	60-150				
Hexachlorobutadiene	11.4		"	11.0		104	61.2-150				
Ethyl Benzene	11.8		"	10.7		111	68.4-125				
Ethyl acetate	11.5		"	10.0		115	40.6-150				
Cyclohexane	11.7		"	10.2		114	60.4-127				
cis-1,3-Dichloropropylene	12.0		"	10.7		112	65.5-129				
cis-1,2-Dichloroethylene	10.5		"	10.5		100	51.3-118				
Chloromethane	9.37		"	10.1		92.8	64.9-130				
Chloroform	9.78		"	10.0		97.8	65.1-130				
Chloroethane	9.68		"	10.1		95.8	52.1-131				
Carbon tetrachloride	9.58		"	10.1		94.9	70-130				
Carbon disulfide	9.55		"	10.0		95.5	61.8-111				
Bromomethane	8.84		"	10.2		86.7	60.1-140				
Bromoform	12.5		"	10.5		119	58.7-150				
Bromodichloromethane	10.6		"	10.2		104	65.3-127				
Benzyl chloride	11.8		"	10.2		116	62.5-150				
Benzene	11.0		"	10.4		106	69.5-130				
Acetone	10.2		"	10.0		102	55.3-133				
2-Hexanone	11.3		"	10.1		112	52-150				
2-Butanone	12.0		"	10.0		120	28.5-154				
1,4-Dioxane	11.3		"	10.2		111	50-150				
1,4-Dichlorobenzene	12.4		"	10.6		117	62.5-139				
1,3-Dichlorobenzene	11.7		"	10.2		115	71.9-153				
1,3-Butadiene	10.2		"	10.5		97.1	66.7-127				
1,3,5-Trimethylbenzene	12.9		"	10.6		121	65-152				
1,2-Dichlorotetrafluoroethane	9.71		"	10.1		96.1	63.3-129				

Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20833 - EPA TO15 PREP										
LCS (BF20833-BS1)										
						Prepared & Analyzed: 06/20/2012				
1,2-Dichloropropane	11.1		ppbv	10.7		103				
1,2-Dichloroethane	10.3		"	10.4		98.8				
1,2-Dichlorobenzene	12.1		"	10.6		114				
1,2,4-Trimethylbenzene	13.0		"	10.7		122				
1,2,4-Trichlorobenzene	11.6		"	11.0		105				
1,1-Dichloroethylene	9.42		"	9.80		96.1				
1,1-Dichloroethane	9.77		"	10.2		95.8				
Trichlorofluoromethane (Freon 11)	8.97		"	10.5		85.4				
1,1,2-Trichloroethane	11.0		"	10.7		103				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.05		"	9.70		93.3				
1,1,2,2-Tetrachloroethane	12.6		"	10.8		117				
1,1,1-Trichloroethane	10.2		"	10.4		98.2				
Dichlorodifluoromethane	9.18		"	10.0		91.8				
1,2-Dibromoethane	11.0		"	10.6		104				
Dibromochloromethane	11.2		"	10.6		105				
Methyl Methacrylate	10.6		"	10.1		105				
Chlorobenzene	11.5		"	10.8		106				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>				

Notes and Definitions

B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.
