

132-10 149TH AVENUE

QUEENS, NEW YORK

Remedial Investigation Report

NYC VCP Site Number: 15CVCP062Q

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January 2015

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 132-10 149th Avenue Site, (NYC VCP Site No. 15CVCP062Q). 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

1/6/15



Qualified Environmental Professional

Date

Signature

EXECUTIVE SUMMARY

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

Site Location and Current Usage

The Site is located at 132-10 149th Avenue (aka 132-35 132nd Street) in the South Jamaica section in Queens, New York and is identified as Block 11886 and Lots 12 and 21 on the New York City Tax Map. Figure 1 shows the Site location. The Site is a triangular shaped parcel of approximately 14,280 square feet and is bounded by 149th Avenue to the north, 150th Street to the south and 132nd Street to the west. A map of the site boundary is shown in Figure 2. Currently, the Site consists of an asphalt-paved parking lot used by hotels to the north.

Summary of Proposed Development Plan

The proposed future use of the Site will consist of a 4-story hotel with a cellar. The combine total gross square footage of this development will be approximately 37,631 square feet in gross floor area and will be comprised of 80 hotel suites. Total ground floor built area will be approximately 7,526 square feet. A total of 2,991 square feet of open space will be located in the southern and eastern portions of the Site and will be designated as an asphalt-paved parking space with isolated landscaped areas and hotel entrance/ drive-thru. The cellar floor elevation will be approximately 13 feet and 5 inches below grade surface. The cellar will be utilized as a mechanical room, hotel amenities such as lobby area, exercise room, meeting room, breakfast area, back office, hotel suites and bathrooms. The proposed construction will require an excavation to 16 feet and 5 inches across the new building footprint and a will include a 30 inch concrete mat slab and 5 inches of gravel. Layout of the proposed site development is presented in Figure 3. The current zoning designation is M2-1, Manufacturing District. The proposed hotel use at the Subject Property, which is contrary to use regulations in existing manufacturing district, is permitted by the Board of Standards and Appeals pursuant to a Zoning Variance application approval on January 19, 2014 (CQER #13-BSA-028Q), NYCDEP Project #13DEPTECH0171).

Summary of Past Uses of Site and Areas of Concern

Based upon the review of the Fire Insurance Maps and Regulatory Agency documents from the Phase I Environmental Site Assessment (ESA) Report prepared by Nova Consulting during February 2012 and a Phase II Site Investigation performed by Equity Environmental Engineering during September 2013 pursuant to a CQER #13-BSA-028Q for Hazardous Materials overseen by NYCDEP (Project #13DEPTECH0171) as a part of the proposed Zoning Variance for the new hotel development at the Site. The site consisted of a vacant lot between 1926 and 2010. Since 2010 the site has been utilized as a parking lot.

AOC identified for this site include:

- Presence of fill material beneath the site.

The Phase I ESA report and the Phase II Site Investigation Report are presented in Appendix A. A map showing areas of concern is presented in Figure 5.

Summary of the Work Performed under the Remedial Investigation

The following scope of work was performed at the site:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.).
2. Installed four (4) soil borings across the entire project Site approximately 18 to 20 feet (bgs), and collected of eight (8) soil samples for chemical analysis from the soil borings to evaluate soil quality.
3. Installed two (2) temporary groundwater monitoring wells throughout the Site and collected two (2) groundwater samples for chemical analysis to evaluate groundwater quality
4. Installed six (6) soil vapor probes around Site perimeter and collected six (6) samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is 26 feet.
2. Depth to groundwater ranges from 17.5 feet to 20 feet at the Site.
3. Bedrock was not encountered during the RI.
4. The stratigraphy of the site, from the surface down, consists of 15 feet of brown silty sand with traces of urban fill and gravel, 2 feet of light brown sand with some silt and 7 to 8 feet of silty sand with moisture.
5. Eight soil samples collected during this RI were compared to 6 NYCRR Part 375-6.8 Track 1 Unrestricted Soil Cleanup Objectives (SCOs) and Restricted Commercial Use (Track 2) SCOs. Soil sampling results showed that one VOC, Acetone (1.19 ppm) was identified in 1 deep sample above Track 1 SCO. No PCE or TCE was identified in any soil samples. Polycyclic Aromatic Hydrocarbon (PAH)-range SVOCs including Benzo(a)anthracene (max. of 1.21), benzo(a)pyrene (max of 1.50 ppm), benzo(b)fluoranthene (max of 1.42 ppm), benzo(k)fluoranthene (max of 1.01 ppm), chrysene (max of 1.33 ppm), dibenzo(a,h)anthracene (max of 0.81 ppm), and indeno(1,2,3-cd)pyrene (max of 0.894 ppm) were detected in 1 shallow and 1 deep soil samples in exceedance of Unrestricted Use SCOs, of which, benzo(a)pyrene also exceeded the Restricted Commercial Use SCO in the deep sample. Pesticides including 4,4'-DDD (max of 0.00329 ppm), 4,4'-DDE (0.00463 of ppm), 4,4'-DDT (0.00938 of ppm), Dieldrin (0.00553 of ppm) were detected at concentrations exceeding their Track 1 Unrestricted Use SCOs in 1 deep soil sample. The PCB aroclor 1260 (0.43 ppm) was detected in 1 shallow soil sample at a concentration exceeding the Track 1 SCOs. Six (6) metals including arsenic (max of 775 ppm), cadmium (max of 4,880 ppm), copper (max of 37,300 ppm), lead (max of 10,500 ppm), mercury (max of 0.913 ppm) and zinc (max of 1,220 ppm) exceeded the Unrestricted Use Track 1 SCOs in 3 shallow and 3 deep soil samples. Of these metals, arsenic, cadmium, copper and lead also exceeded their Restricted Commercial Use (Track 2) SCOs in 1 shallow soil sample (SB2A), indicating a hotspot location. This SB2A soil boring is located in the area outside of the footprint of new hotel building.

6. Groundwater samples collected during the RI were compared to the New York State 6NYCRR Part 703.5 Groundwater Quality Standards (GQS). No VOCs, pesticides or PCBs were detected in the groundwater samples at concentrations exceeding their respective GQS. SVOCs listed as PAHs were detected 1 of the 2 groundwater samples at concentrations below their GQS. Several metals were identified, but only chromium (max. 58 ug/L), manganese (max. 505 ug/L), and sodium (max. 213,000 ug/L) were detected in groundwater samples in exceedance of their respective GQSs.
7. Six soil vapor probes were installed across Site. Soil vapor results collected during the RI were compared to the compounds listed in Vapor Intrusion Matrices in the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006. Soil vapor results show a wide range of compounds throughout the property including BTEX and associated petroleum related compounds as well as chlorinated hydrocarbons. The concentrations of these compounds ranged from 6.9 ug/m³ to 150 ug/m³. These compounds were not identified in soil or groundwater beneath the property and are not believed to be associated with an on-site source area. Chlorinated hydrocarbons were detected in 3 soil vapor samples collected from the central portion of the Site and included PCE (29 ug/m³), TCE (max. 2.6 ug/m³) and methylene chloride (max. 6.3 ug/m³). Acetone was the most abundant in all soil vapor samples (ranged from 180 to 6,800 ug/m³) and its detection required dilution for 2 samples while it was reported in the laboratory batch blank for 4 samples. None of the detected chlorinated compounds at Site exceeded their corresponding AGVs. Concentrations of chlorinated TCE and PCE were below the monitoring level ranges established by NYSDOH and do not require monitoring or mitigation.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Risingsam Management, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.33-acre site located at 132-10 149th Avenue in the South Jamaica section of Queens, New York. Commercial use is proposed for the property. The RI work was performed between 04/18/13 and 07/17/14. 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 132-10 149th Avenue (aka 132-35 132nd Street) in the South Jamaica section in Queens, New York and is identified as Block 11886 and Lots 12 and 21 on the New York City Tax Map. Figure 1 shows the Site location. The Site is a triangular shaped parcel of approximately 14,280 square feet and is bounded by 149th Avenue to the north, 150th Street to the south and 132nd Street to the west. A map of the site boundary is shown in Figure 2. Currently, the Site consists of an asphalt-paved parking lot used by hotels to the north.

1.2 PROPOSED DEVELOPMENT PLAN

The proposed future use of the Site will consist of a 4-story hotel with a cellar. The combine total gross square footage of this development will be approximately 37,631 square feet in gross floor area and will be comprised of 80 hotel suites. Total ground floor built area will be approximately 7,526 square feet. A total of 2,991 square feet of open space will be located in the southern and eastern portions of the Site and will be designated as an asphalt-paved parking space with isolated landscaped areas and hotel entrance/ drive-thru. The cellar floor elevation will be approximately 13 feet and 5 inches below grade surface. The cellar will be utilized as a mechanical room, hotel amenities such as lobby area, exercise room, meeting room, breakfast area, back office, hotel suites and bathrooms. The proposed construction will require an excavation to 16 feet and 5 inches across the new building footprint and a will include a 30 inch concrete mat slab and 5 inches of gravel. Layout of the proposed site development is presented in Figure 3. The current zoning designation is M2-1, Manufacturing District. The proposed hotel

use at the Subject Property, which is contrary to use regulations in existing manufacturing district, is permitted by the Board of Standards and Appeals pursuant to a Zoning Variance application approval on January 19, 2014 (CQER #13-BSA-028Q), NYCDEP Project #13DEPTECH0171).

1.3 DESCRIPTION OF SURROUNDING PROPERTY

The site is located in a commercial and industrial neighborhood. A NYC Department of Sanitation garage and Nassau Expressway Service Road are located to the south of the Site, a 2-story manufacturing building is located to the west and a 6-story hotel building is located to the north of the Site.

Within a 500 feet radius of the Site, there are a variety of land uses including: commercial and industrial facilities and a wastewater treatment plant. Properties located within a ¼-mile radius of the Site are zoned M2-1 (general manufacturing district) and R3-2 (general residential district). Within 250 feet radius of the Site, no sensitive receptor is identified. The land uses include commercial uses, institutional, industrial and parking facilities. Figure 4 shows the surrounding land uses.

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) Report prepared by Nova Consulting during February 2012 a Site history was established. The site consisted of a vacant lot between 1926 and 2010. The site has been utilized as a parking lot since 2010.

2.2 PREVIOUS INVESTIGATIONS

Previous investigations performed at the Site included the following:

- Phase I Environmental Site Assessment (ESA) by Nova Consulting, February 2012.
- Phase II Environmental Site Assessment (ESA) Equity Environmental Engineering, September 2013.

2.3 SITE INSPECTION

Mr. Michael Fiscina of Nova Consulting performed the Site inspection on February 16, 2012. Site reconnaissance included a visual inspection of all portions of the Site and the adjacent land uses.

At the time of the inspection, the Site was utilized as a long-term parking lot for JFK Airport and adjoining hotels to the north. The vicinity of the Site was identified as commercial and industrial uses including NYC Department of Sanitation garage and wastewater treatment plant.

2.4 AREAS OF CONCERN

Based upon the results of the previous investigation, the AOCs identified for this site include:

- Presence of fill material beneath the site.

The Phase I ESA report and the Phase II Site Investigation Report are presented in Appendix A. 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.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

The following scope of work was performed at the site:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.).
2. Installed four (4) soil borings across the entire project Site approximately 18 to 20 feet (bgs), and collected of eight (8) soil samples for chemical analysis from the soil borings to evaluate soil quality.
3. Installed two (2) temporary groundwater monitoring wells throughout the Site and collected two (2) groundwater samples for chemical analysis to evaluate groundwater quality
4. Installed six (6) soil vapor probes around Site perimeter and collected six (6) samples for chemical analysis.

Photographs were taken during second rond of soil vapor sampling and are provided in Appendix B.

4.2 BORINGS AND MONITORING WELLS

Drilling and Soil Logging

A total of four (4) soil probes designated SB-1 to SB-4 were installed and sampled at the Site. Soil probes were installed in the building slab on-grade to the depth of 24 feet bgs. All soil probes were installed utilizing a Geoprobe[®] unit fitted with Geoprobe[®] tooling and sampling equipment. Soil samples were collected utilizing a 5-foot long Macro Core sampler fitted with dedicated acetate liners. Each Macro Core was cut open and immediately screened with a Photo Ionization Detector (PID) for VOCs, prior to collecting the required samples for laboratory analysis. The soil was screened and characterized at two-foot intervals. Continuous soil samples were collected during soil probe installation.

Boring logs were prepared by a geologist are attached the Phase II Site Investigation Report in **Appendix A**. A map showing the location of soil borings is shown in Figure 6.

Groundwater Monitoring Well Construction

Two (2) temporary monitoring wells designated as TWP-1 and TWP-2 were installed at the Site during the RI. The monitoring wells were installed utilizing similar technology as the soil probes. The monitoring wells were constructed of 1-inch diameter PVC installed to 24 feet bgs with 20 feet of riser and 5 feet well screen (0.10 inches slots).

Monitoring wells construction logs are attached to the Phase II Site Investigation Report Appendix A. A map showing the location of soil borings is shown in Figure 6.

Survey

A land survey was used to identify the location of all soil borings and monitor wells.

Water Level Measurement

Prior to groundwater purging and sampling of monitoring wells, the depth to water was measured by an unknown method and was reported between 17.5 and 20 feet bgs. The depth to groundwater was documented in the Phase II Site Investigation in Appendix A.

Soil Vapor Boring Construction

Six (6) soil vapor probes designated SG-1, SG-2 and SV-1 through SV-4 were installed during the remedial investigation. All soil vapor probes were installed to 11 and 12 feet bgs. The soil vapor probes were installed in accordance with the NYSDOH guidance for 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 of 1½-inch diameter and was installed between 11 and 12 feet bgs. 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. A map showing the locations of soil vapor borings is shown in Figure 6.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for the Area 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

Nine (9) soil samples were collected for chemical analysis during this RI. These included one (1) shallow soil sample and one (1) deep soil sample from all of the soil probes and one (1) duplicate deep soil sample was also collected from a select soil probe. The soil samples were collected utilizing a 5-foot long Macro Core sampler fitted with dedicated acetate liners. The soil was screened and characterized at two-foot intervals.

All samples were properly handled and placed into the appropriately labeled containers. One field blank sample and one trip blank were collected and submitted to the laboratory along the soil samples. 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.

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.

Groundwater Sampling

Two (2) groundwater samples were collected for chemical analysis during this RI. Groundwater samples were collected using a dedicated bailer and a peristaltic pump fitted with dedicated polyethylene tubing. In addition, a sample was collected in the field utilizing a 0.45 micron, in-line filter.

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

Water samples were properly handled and placed into the appropriately labeled containers. One field blank sample and one trip blank were collected and submitted to the laboratory along with the water samples. 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.

Soil Vapor Sampling

soil vapor samples were collected for chemical analysis during this RI. 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 was collected from each vapor probe utilizing pre-cleaned, passivated, evacuated whole air Summa[®] Canister with two soil vapor samples collected in 1-liter summa canisters and four samples collected in 6-liters summa canisters. 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 while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-gas Detector). Helium Detector readings did not exceed zero ppm 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 the duration 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 Thomas Francis and Mark E. Robbins.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were Integrated Analytical Laboratories LLC.and York Analytical Laboratories Inc.
Chemical Analytical Methods	<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, Table 2, and Table 3, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix A and Appendix D.

5.0 ENVIRONMENTAL EVALUATION

5.1 GEOLOGICAL AND HYDROGEOLOGICAL CONDITIONS

The Site is located in the southern portion of the borough of Queens, New York. The elevation of the Site is approximately 26 feet above mean sea level (USGS 7 ½-Minute Jamaica, New York Quadrangle, 1988, Photo revised 1995).

Stratigraphy

The stratigraphy of the site, from the surface down, consists of 15 feet of brown silty sand with traces of urban fill and gravel, 2 feet of light brown sand with some silt and 7 to 8 feet of silty sand with moisture. Boring logs describing surface conditions are presented in Appendix A.

Hydrogeology

The depth to groundwater beneath the site ranges 17.5 feet to 20 feet bgs. No groundwater flow was determined for the site.

5.2 SOIL CHEMISTRY

Soil samples collected during this RI were compared to 6 NYCRR Part 375-6.8 Track 1 Unrestricted Soil Cleanup Objectives (SCOs) and Track 2 Commercial SCOs. Soil sampling results showed the VOC Acetone (1.19 ppm) was identified in 1 deep sample above Track 1 SCO. No PCE or TCE was identified in any soil samples. Polycyclic Aromatic Hydrocarbon (PAH)-range SVOCs including Benzo(a)anthracene (max. of 1.21), benzo(a)pyrene (max of 1.50 ppm), benzo(b)fluoranthene (max of 1.42 ppm), benzo(k)fluoranthene (max of 1.01 ppm), chrysene (max of 1.33 ppm), dibenzo(a,h)anthracene (max of 0.81 ppm), and indeno(1,2,3-cd)pyrene (max of 0.894 ppm) were detected in 1 shallow and 1 deep soil samples in exceedance of Track 1 SCOs, of which, benzo(a)anthracene also exceeded the Track 2 SCO in the deep sample. Pesticides including 4,4'-DDD (max of 0.00329 ppm), 4,4'-DDE (0.00463 of ppm), 4,4'-DDT (0.00938 of ppm), Dieldrin (0.00553 of ppm) were detected at concentrations exceeding their Track 1 Unrestricted Use SCOs in 1 deep soil sample. The PCB aroclor 1260 (0.43 ppm) was detected in 1 shallow soil sample at a concentration exceeding the Track 1 SCOs. Six (6) metals, arsenic (max of 775 ppm), cadmium (max of 4,880 ppm), copper (max of 37,300 ppm), lead (max of 10,500 ppm), mercury (max of 0.913 ppm) and zinc (max of 1,220 ppm) exceeded the Track 1 SCOs in 3 shallow and 3 deep soil samples. Of these metals, arsenic, cadmium, copper and lead also exceeded their Track 2 SCOs in 1 shallow soil sample.

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. Figure 7 to 10 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Soil Cleanup Objectives.

5.3 GROUNDWATER CHEMISTRY

Groundwater samples collected during the RI were compared to the New York State 6NYCRR Part 703.5 Groundwater Quality Standards (GQS). No VOCs, pesticides or PCBs were detected in the groundwater samples at concentrations exceeding their respective GQS. SVOCs listed as PAHs were detected 1 of the 2 groundwater samples at concentrations below their GQS. Total metal including chromium (max. 204 ug/L), magnesium (max. 137,000 ug/L), manganese (max. 505 ug/L), lead (max. 44.8 ug/L) and sodium (max. 213,000 ug/L) were detected in groundwater samples in exceedance of their GQS.

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 3. Exceedence of applicable groundwater standards are shown.

Figure 11 shows 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 show a wide range of compounds throughout the property including BTEX and associated petroleum related compounds as well as chlorinated hydrocarbons. BTEX and associated derivatives were found in all soil vapor samples and included a wide number of compounds. The concentrations of these compounds ranged from 6.9 ug/m³ to 150 ug/m³. These compounds were not identified in soil or groundwater beneath the property and are not believed to be associated with an on-site source area. Chlorinated hydrocarbons were detected in 3 soil vapor samples collected from the central portion of the Site and included PCE (29 ug/m³), TCE (max. 2.6 ug/m³) and methylene chloride ((max. 6.3 ug/m³). Acetone was the most abundant in all soil vapor samples (max. 6,800 ug/m³) and its detection required dilution for 2 samples while it was reported in the laboratory batch blank for 4 samples. The NYSDOH has established AGVs for three (3) of the detected VOCs in soil vapor samples:

methylene chloride (60 ug/m³), PCE (100 ug/m³) and TCE (5 ug/m³). None of the detected chlorinated compounds at Site exceeded their corresponding AGVs.

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.

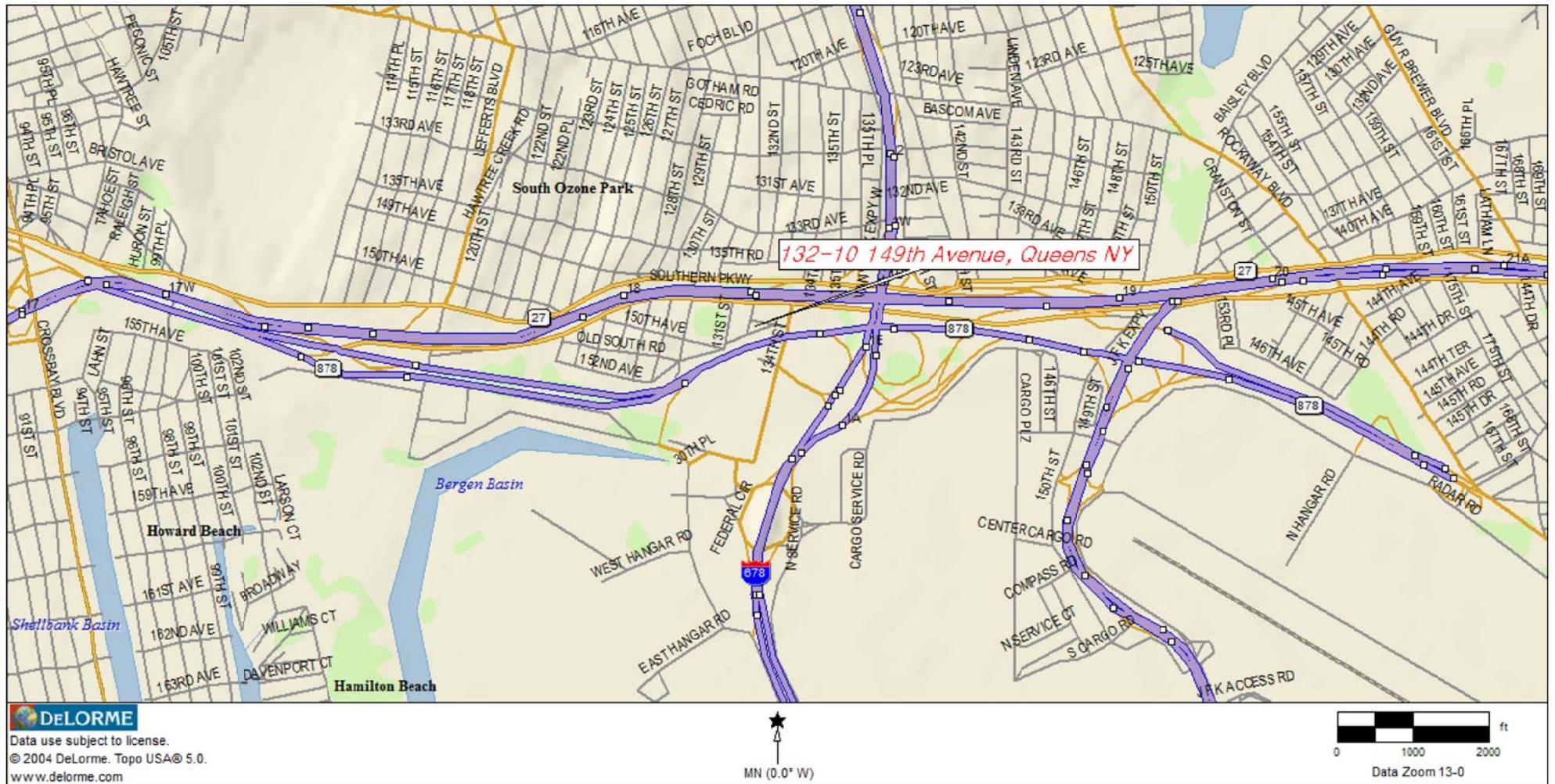
5.5 PRIOR ACTIVITY

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



HYDRO TECH ENVIRONMENTAL CORP.

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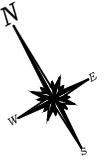
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 Approved By: M.S.
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TITLE:

FIGURE 1: SITE LOCATION MAP



ADJACENT 2-STORY
COMMERCIAL

149th AVENUE

ADJACENT 2-STORY
COMMERCIAL

132nd STREET

SIDEWALK

SIDEWALK

150th STREET

LEGEND:

 SITE BOUNDARY

0' 20' 40' 60'
SCALE IN FEET (FT.)



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FIGURE 2: SITE BOUNDARY MAP

FIGURE 3

Proposed Development Plan



NORTH ELEVATION

SCALE 1/8" = 1'-0"



SOUTH ELEVATION

SCALE 1/8" = 1'-0"

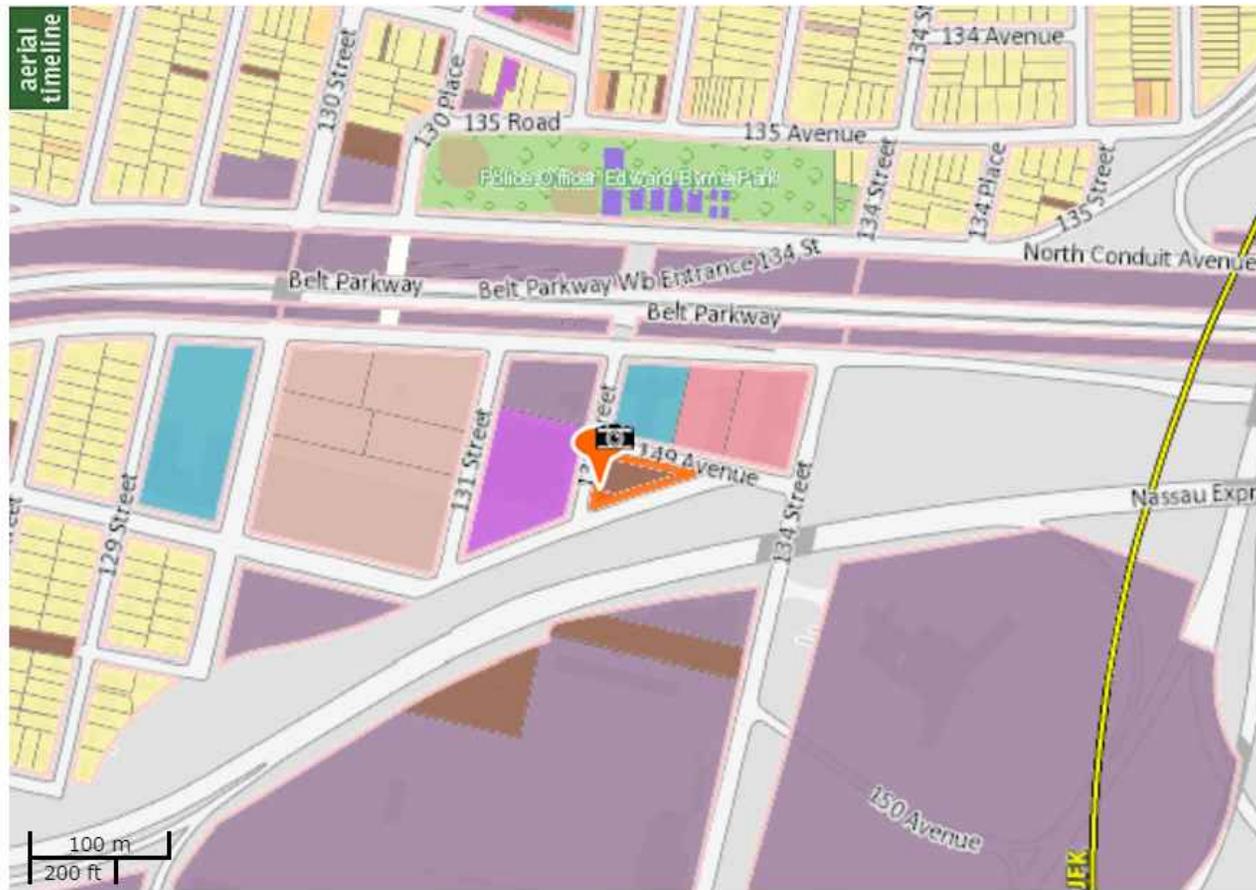
DOB APPROVAL STAMP

REV.#	DATE	DESCRIPTION
	06-24-14	LAYOUT REVISED
	06-02-14	LAYOUT REVISED

PROJECT TITLE:
132-10, 149 Avenue
QUEENS, NEW YORK

NORTH & SOUTH ELEVATION

SEAL & SIGNATURE:	DATE: 01-23-14
	PROJECT No: 201113
	DRAWING BY: CK
	CHK BY: MK
	DWG No:
	A-301.00
	PAGE No: 11 of 20



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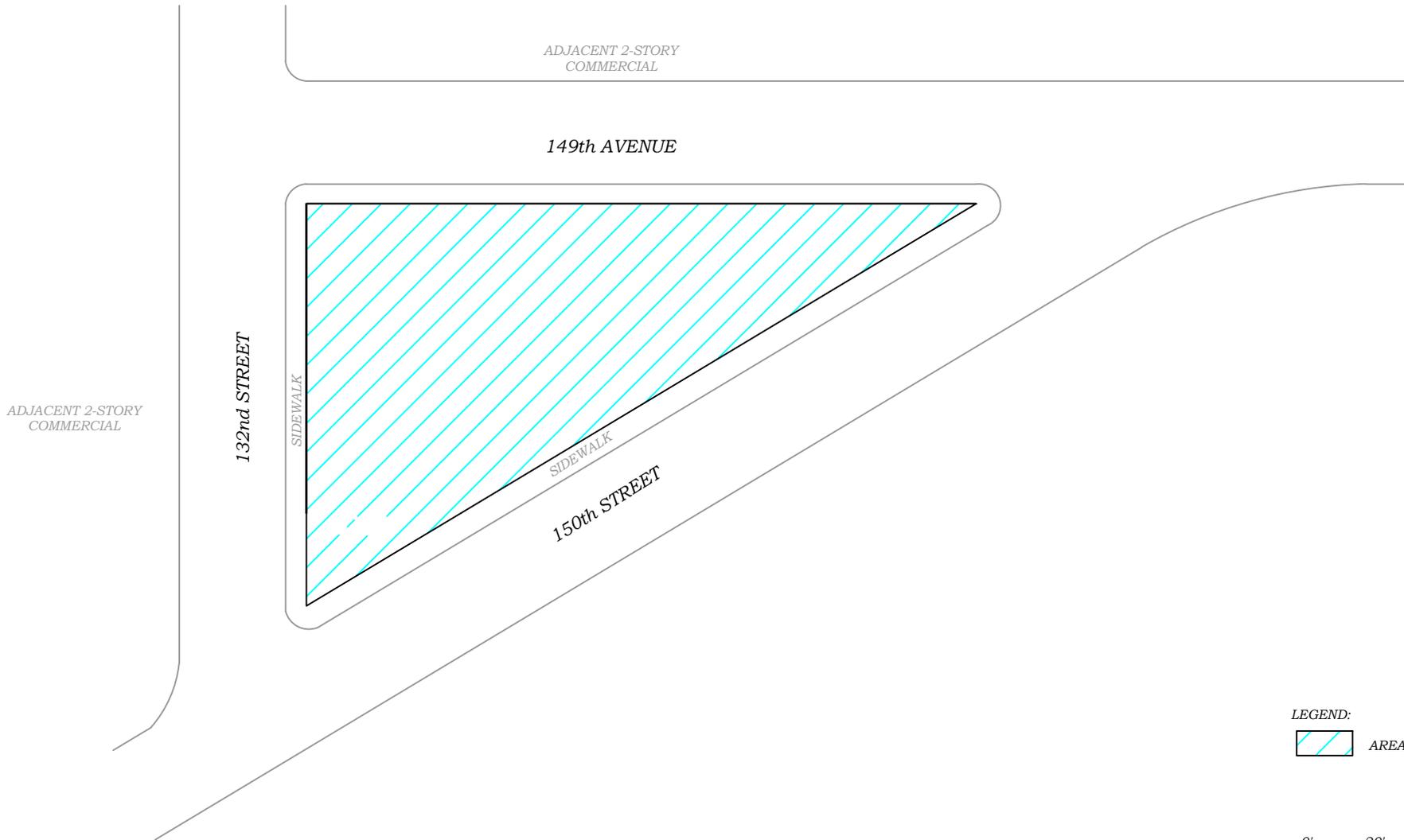
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FIGURE 4: LAND USE MAP



LEGEND:
 AREAS OF CONCERN

0' 20' 40' 60'
 SCALE IN FEET (FT.)



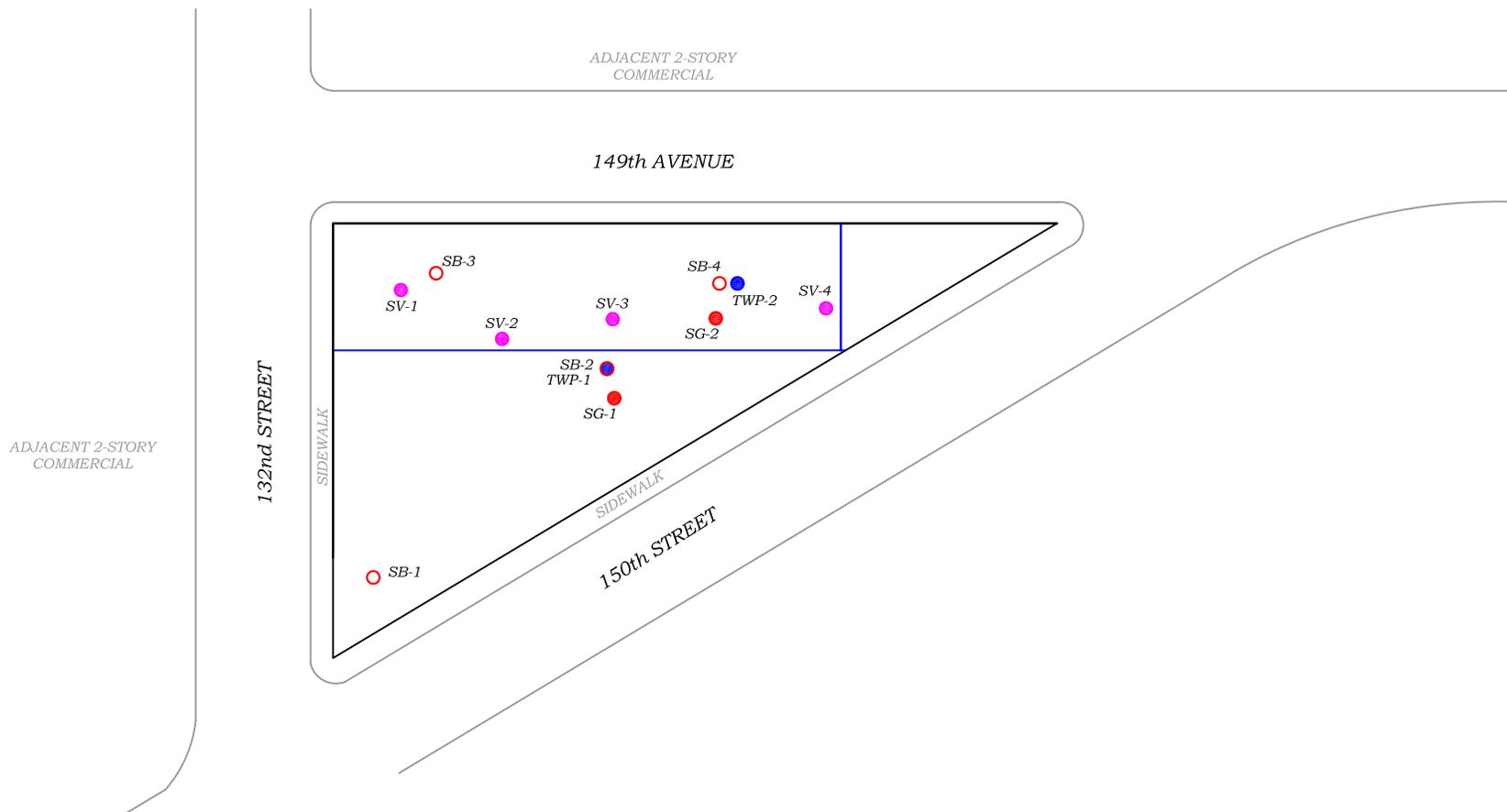
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FIGURE 5: MAP OF AREAS OF CONCERN



LEGEND:

- TEMPORARY MONITORING WELL LOCATIONS (TWP)
- SOIL VAPOR PROBE LOCATION (SV)
- SOIL BORING LOCATIONS (SB)
- SOIL GAS PROBE LOCATIONS (SG)



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FIGURE 6: LOCATION OF SOIL BORINGS, WELLS AND SOIL VAPOR SAMPLES



SB-3			
Depth	SB-3A (1'-2')	SB-3B (13'-13.5')	
VOCs	mg/Kg	mg/Kg	USCO
Acetone	ND	1.19	0.05

SB-4		
Depth	SB-4A (1'-1.5')	SB-4B (16.5'-17')
VOCs	ND	NAS

ADJACENT 2-STORY
COMMERCIAL

ADJACENT 2-STORY
COMMERCIAL

149th AVENUE

132nd STREET

SIDEWALK

150th STREET

SIDEWALK

SB-2			
Depth	SB-2A (1'-1.5')	SB-2B (13'-13.5')	SB-2B01 (Duplicate)
VOCs	ND	NAS	NAS

SB-1		
Depth	SB-1A (1'-1.5')	SB-1B (19'-19.5')
VOCs	ND	ND

LEGEND:

- SOIL BORING LOCATIONS (SB)
- VOCs VOLITILE ORGANIC COMPOUNDS
- mg/Kg MILLIGRAMS PER KILOGRAMS
- NAS NONE ABOVE STANDARDS
- ND NONE DETECTED
- USCO UNRESTRICTED USE SOIL CLEANUP OBJECTIVES
- GRAY SHADED VALUES EXCEED USCO



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TITLE:

FIGURE 7: MAP OF VOCs IN SOIL

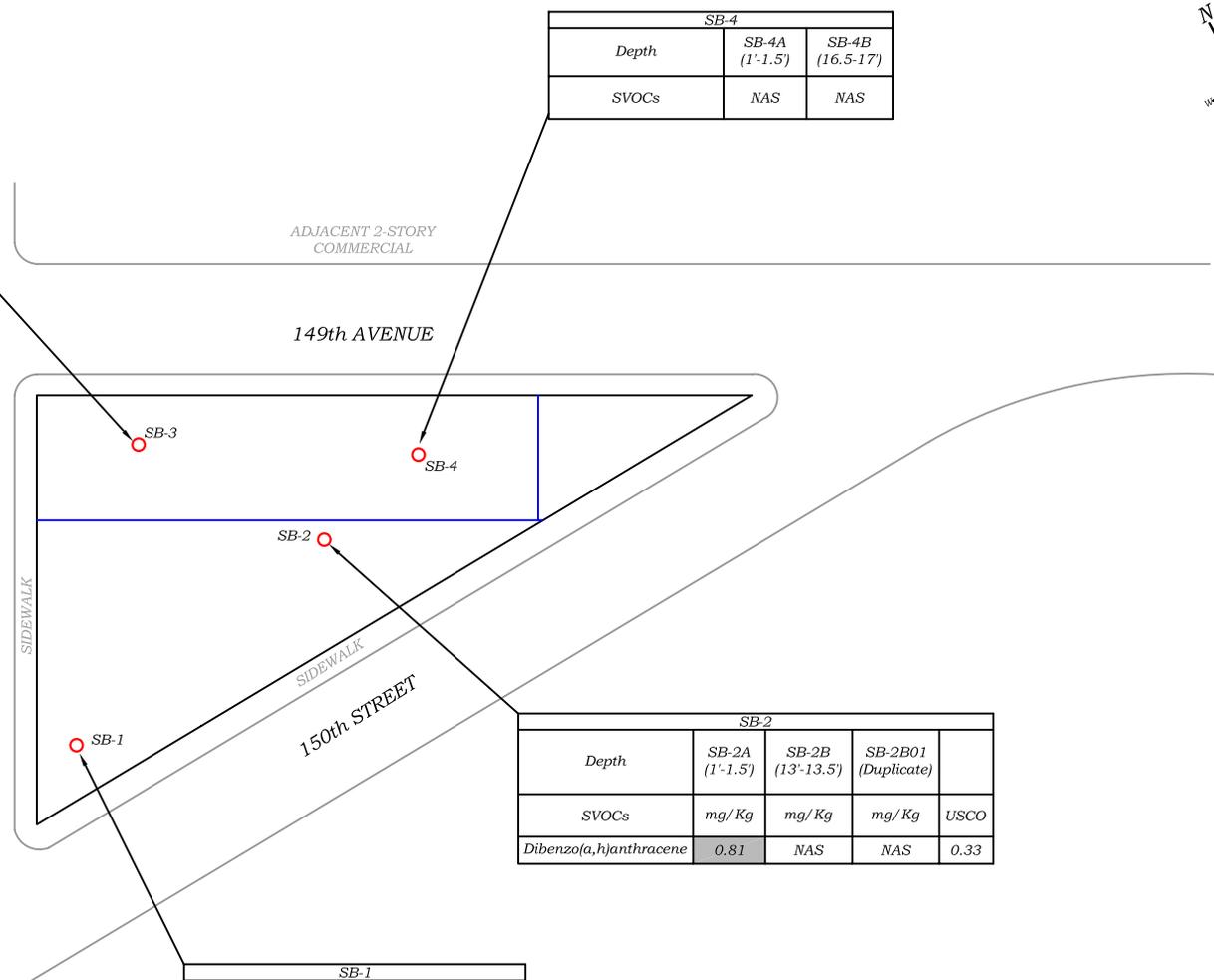


SB-3				
Depth	SB-3A (1.5'-2')	SB-3B (13'-13.5')		
SVOCs	mg/Kg	mg/Kg	USCO	RSCO
Benzo(a)anthracene	NAS	1.21	1	5.6
Benzo(a)pyrene	NAS	1.5	1	1
Benzo(b)fluoranthene	NAS	1.42	1	5.6
Benzo(k)fluoranthene	NAS	1.01	0.80	56
Chrysene	NAS	1.33	1	56
Dibenzo(a,h)anthracene	NAS	0.446	0.33	NS
Indeno(1,2,3-cd)pyrene	NAS	0.894	0.5	5.6

SB-4		
Depth	SB-4A (1'-1.5')	SB-4B (16.5-17')
SVOCs	NAS	NAS

SB-2				
Depth	SB-2A (1'-1.5')	SB-2B (13'-13.5')	SB-2B01 (Duplicate)	
SVOCs	mg/Kg	mg/Kg	mg/Kg	USCO
Dibenzo(a,h)anthracene	0.81	NAS	NAS	0.33

SB-1		
Depth	SB-1A (1'-1.5')	SB-1B (19'-19.5')
SVOCs	ND	ND



- LEGEND:**
- SOIL BORING LOCATIONS (SB)
 - SVOCs SEMI VOLATILE ORGANIC COMPOUNDS
 - mg/Kg MILLIGRAMS PER KILOGRAMS
 - NAS NONE ABOVE STANDARDS
 - ND NONE DETECTED
 - USCO UNRESTRICTED USE SOIL CLEANUP OBJECTIVES
 - CSCO RESTRICTED USE SOIL CLEANUP OBJECTIVES - COMMERCIAL
 - GRAY SHADED VALUES EXCEED USCO
 - BLUE SHADED VALUES EXCEED CSCO



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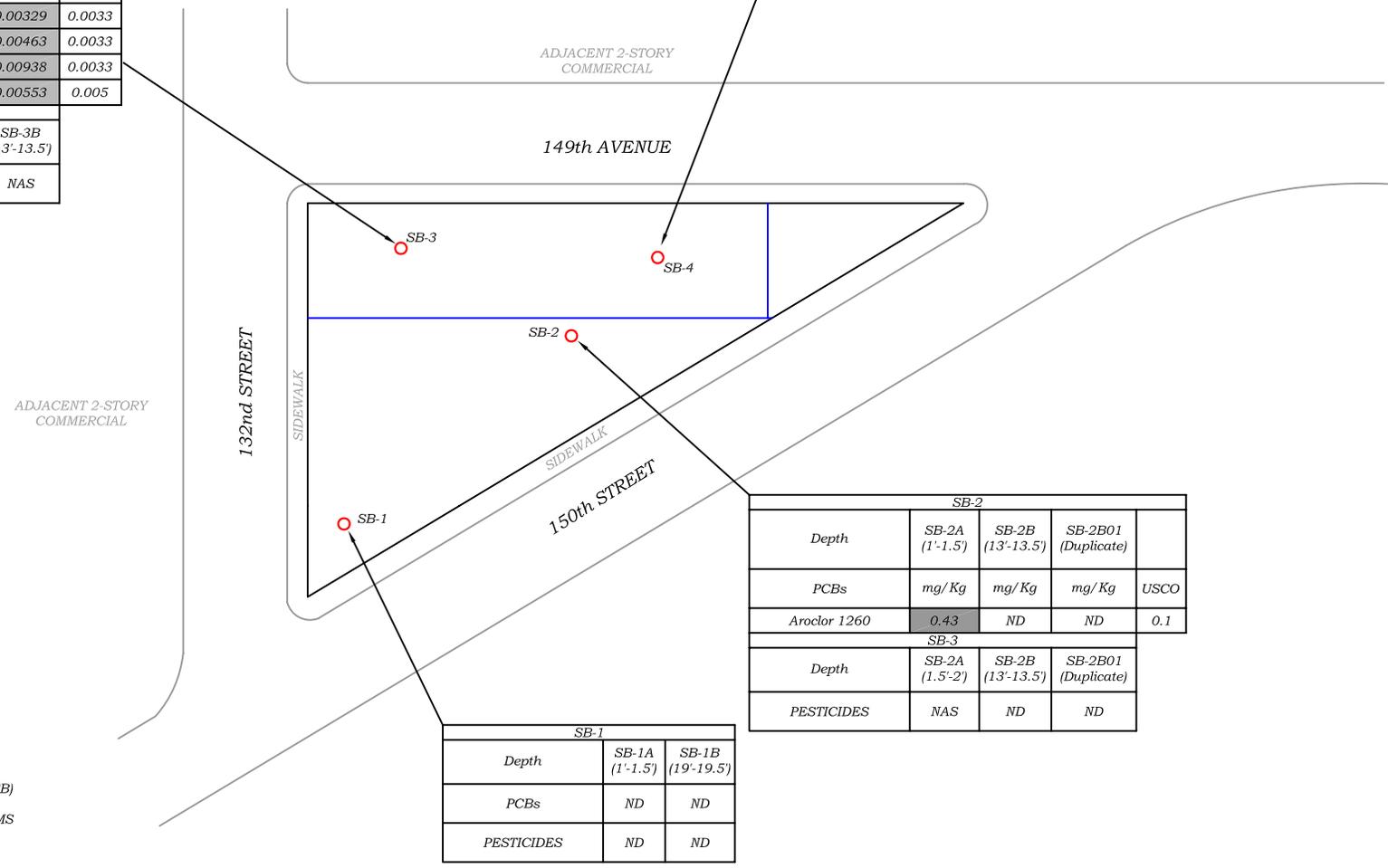
FIGURE 8: MAP OF SVOCs IN SOIL



SB-3			
Depth	SB-3A (1.5'-2')	SB-3B (13'-13.5')	
PESTICIDES	mg/Kg	mg/Kg	USCO
4,4'-DDD	ND	0.00329	0.0033
4,4'-DDE	NAS	0.00463	0.0033
4,4'-DDT	NAS	0.00938	0.0033
Dieldrin	NAS	0.00553	0.005

SB-3		
Depth	SB-3A (1.5'-2')	SB-3B (13'-13.5')
PCBs	NAS	NAS

SB-4		
Depth	SB-4A (1'-1.5')	SB-4B (16.5-17')
PESTICIDES	NAS	NAS
PCBs	NAS	NAS



SB-2				
Depth	SB-2A (1'-1.5')	SB-2B (13'-13.5')	SB-2B01 (Duplicate)	
PCBs	mg/Kg	mg/Kg	mg/Kg	USCO
Aroclor 1260	0.43	ND	ND	0.1

SB-3			
Depth	SB-2A (1.5'-2')	SB-2B (13'-13.5')	SB-2B01 (Duplicate)
PESTICIDES	NAS	ND	ND

SB-1		
Depth	SB-1A (1'-1.5')	SB-1B (19'-19.5')
PCBs	ND	ND
PESTICIDES	ND	ND

- LEGEND:**
- SOIL BORING LOCATIONS (SB)
 - mg/Kg MILLIGRAMS PER KILOGRAMS
 - NAS NONE ABOVE STANDARDS
 - ND NONE DETECTED
 - USCO UNRESTRICTED USE SOIL CLEANUP OBJECTIVES
 - GRAY SHADED VALUES EXCEED USCO



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FIGURE 9: MAP OF PESTICIDES AND PCBS IN SOIL

SB-3			
Depth	SB-3A (1.5'-2')	SB-3B (13'-13.5')	
METALS	mg/Kg	mg/Kg	USCO
Copper	NAS	119	50
Lead	70.7	195	63
Mercury	NAS	0.337	0.18
Zinc	NAS	237	109

SB-4			
Depth	SB-4A (1'-1.5')	SB-4B (16.5-17')	
METALS	mg/Kg	mg/Kg	USCO
Lead	76.8	447	63
Mercury	NAS	0.349	0.18
Zinc	445	538	538



ADJACENT 2-STORY
COMMERCIAL

ADJACENT 2-STORY
COMMERCIAL

132nd STREET

149th AVENUE

SB-2

SIDEWALK

150th STREET

SB-3

SB-4

SB-1

SB-2					
Depth	SB-2A (1'-1.5')	SB-2B (13'-13.5')	SB-2B01 (Duplicate)		
METALS	mg/Kg	mg/Kg	mg/Kg	USCO	CSCO
Arsenic	775	NAS	NAS	13	16
Cadmium	4830	NAS	NAS	2.5	9.3
Copper	37300	75.7	NAS	50	270
Lead	10500	147	149	63	1000
Mercury	0.918	NAS	NAS	0.18	2.8
Zinc	1220	NAS	112	109	10000

SB-1		
Depth	SB-1A (1'-1.5')	SB-1B (19'-19.5')
METALS	NAS	NAS

LEGEND:

- SOIL BORING LOCATIONS (SB)
- mg/Kg MILLIGRAMS PER KILOGRAMS
- NAS NONE ABOVE STANDARDS
- ND NONE DETECTED
- USCO UNRESTRICTED USE SOIL CLEANUP OBJECTIVES
- CSCO RESTRICTED USE SOIL CLEANUP OBJECTIVES - COMMERCIAL
- GRAY SHADED VALUES EXCEED USCO
- BLUE SHADED VALUES EXCEED RSCO AND USCO



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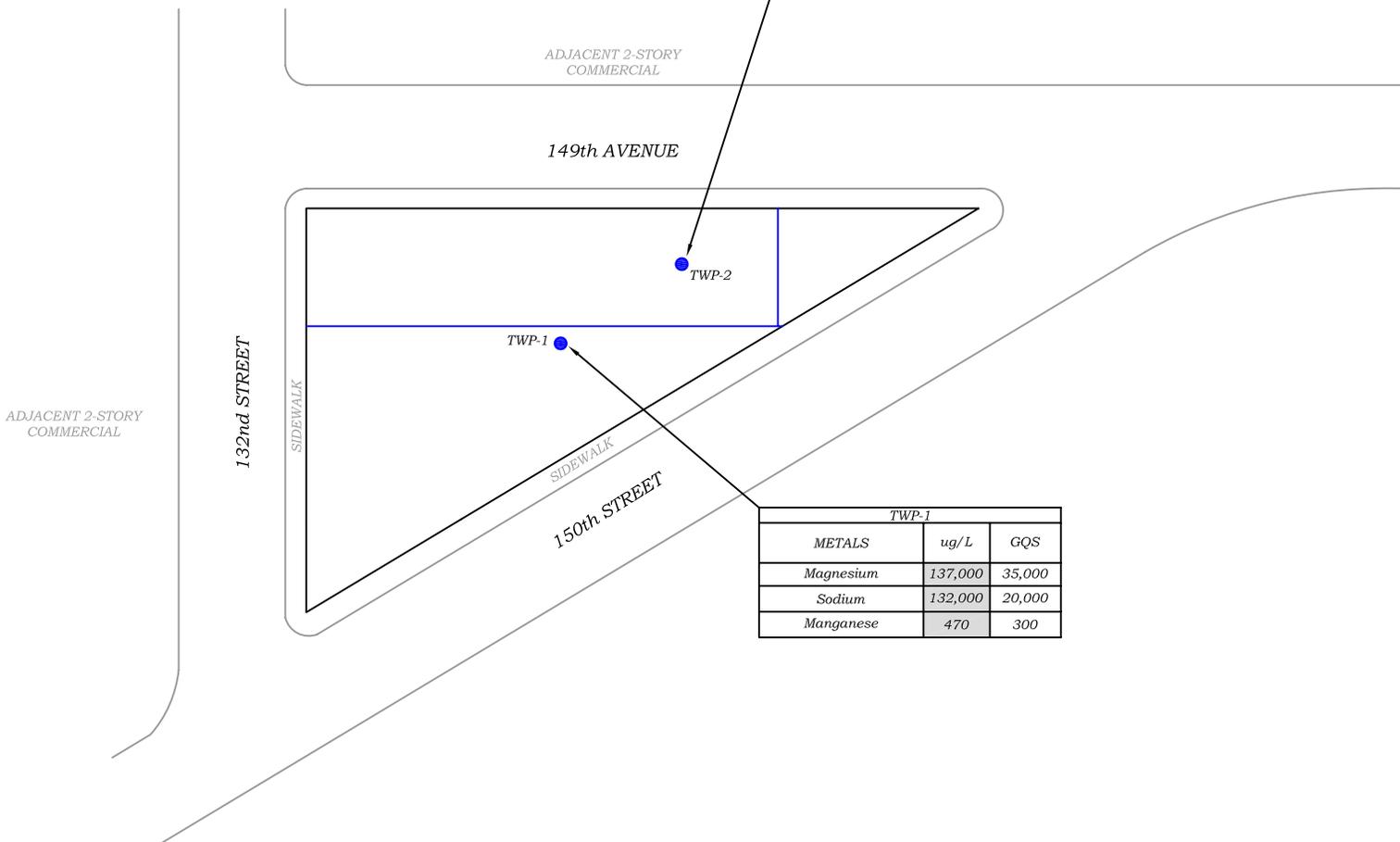
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FIGURE 10: MAP OF METALS IN SOIL

TWP-2		
METALS	ug/L	GQS
Chromium	204	50
Lead	44.8	25
Manganese	505	300
Sodium	213,00	20,000



TWP-1		
METALS	ug/L	GQS
Magnesium	137,000	35,000
Sodium	132,000	20,000
Manganese	470	300

LEGEND:

- TEMPORARY MONITORING WELL LOCATIONS (TWP)
- VOCs VOLATILE ORGANIC COMPOUNDS
- ug/L MICROGRAMS PER LITER
- GQS GROUNDWATER QUALITY STANDARDS
- GRAY SHADED VALUES EXCEED GQS



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FIGURE 11: MAP OF METALS IN GROUNDWATER



SV-1	
VOCs	ug/m ³
1,2,4-Trimethylbenzene	60
1,3,5-Trimethylbenzene	16
Butanone	16
Acetone	200
Benzene	11
Carbon disulfide	10
Ethyl Benzene	21
Isopropanol	16
n-Heptane	30
n-Hexane	82
o-Xylene	30
p-& m-Xylene	100
p-Ethyltoluene	52
Toluene	69

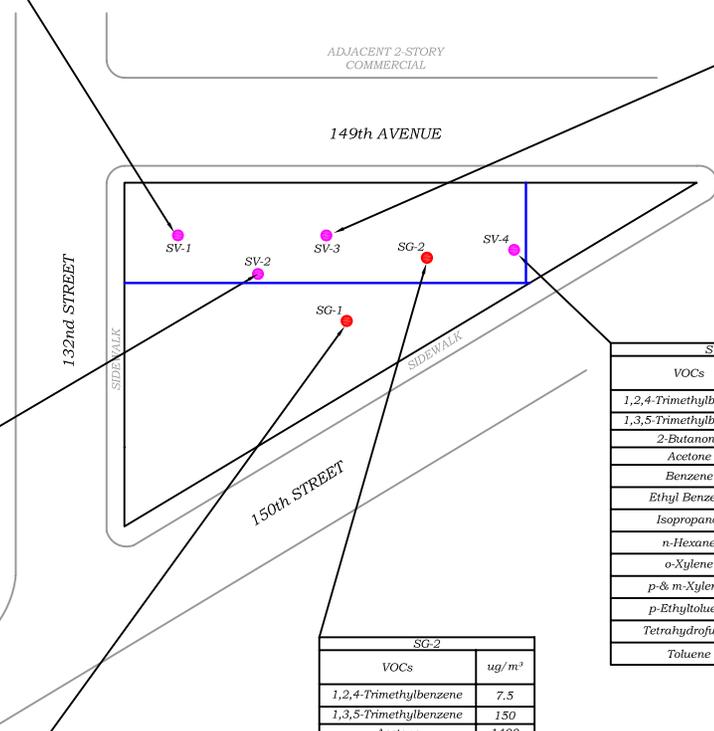
SV-3	
VOCs	ug/m ³
1,2,4-Trimethylbenzene	110
1,3,5-Trimethylbenzene	26
2-Butanone	24
Acetone	180
Benzene	12
Ethyl Benzene	33
Isopropanol	22
Methylene chloride	36
n-Heptane	12
n-Hexane	28
o-Xylene	49
p-& m-Xylenes	160
p-Ethyltoluene	86
Tetrahydrofuran	11
Toluene	100
Trichloroethene	29
Trichloroethylene	17

SV-2	
VOCs	ug/m ³
1,2,4-Trimethylbenzene	71
1,3,5-Trimethylbenzene	19
Butanone	24
Acetone	230
Benzene	8.20
Carbon disulfide	10
Cyclohexane	17
Ethyl Benzene	22
Isopropanol	23
n-Heptane	42
n-Hexane	73
o-Xylene	34
p-& m-Xylene	110
p-Ethyltoluene	55
Toluene	70

SV-4	
VOCs	ug/m ³
1,2,4-Trimethylbenzene	66
1,3,5-Trimethylbenzene	17
2-Butanone	26
Acetone	180
Benzene	7.60
Ethyl Benzene	18
Isopropanol	13
n-Hexane	8.10
o-Xylene	7.70
p-& m-Xylenes	28
p-Ethyltoluene	51
Tetrahydrofuran	7.60
Toluene	57

SG-1	
VOCs	ug/m ³
1,2,4-Trimethylbenzene	6.9
1,3,5-Trimethylbenzene	160
Acetone	6,800
Benzene	23
Bromomethane	13
Chloromethane	5.1
Cyclohexane	13
Methylene chloride	6.3
Methyl ethyl ketone	160
Methyl isobutyl ketone	3.8
n-Heptane	63
n-Hexane	51
Tert-butyl alcohol	58
Toluene	110
Trichloroethene	2.6
Xylenes - TOTAL	61

SG-2	
VOCs	ug/m ³
1,2,4-Trimethylbenzene	7.5
1,3,5-Trimethylbenzene	150
Acetone	1400
Benzene	21
Bromomethane	5.4
Chloromethane	2.4
Cyclohexane	19
Ethyl Benzene	20
Methylene chloride	3.6
Methyl ethyl ketone	450
Methyl isobutyl ketone	7.9
n-Heptane	77
n-Hexane	57
Tert-butyl alcohol	120
Toluene	110
Trichloroethene	2.6
Xylenes - TOTAL	63



LEGEND:
 ● SOIL VAPOR PROBE LOCATION (SV)
 ● SOIL GAS PROBE LOCATION (SG)
 VOC VOLATILE ORGANIC COMPOUND
 ug/m³ MICROGRAMS PER CUBIC METER



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FIGURE 12: MAP OF VOCs IN SOIL VAPORS

TABLES

Table 1
Soil Samples Analytical Results for VOCs
132-10 149th Avenue, Queens, NY

Sample ID	SB1A (1'-1.5')		SB1B (19-19.5')		SB2A (1'-1.5')		SB2B (13'-13.5')		SB2B01 (13'-13.5')		SB3A (1.5'-2')		SB3B (13'-13.5')		SB4A (1-1.5')		SB4B (16.5'-17')		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Commercial	
	4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013						
Client Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil				
Compound	Result		Result		Result		Result		Result		Result		Result		Result		Result				
Units	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/Kg	mg/Kg	
1,1,1,2-Tetrachloroethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,1,1-Trichloroethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.68	500	
1,1,2,2-Tetrachloroethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,1,2-Trichloroethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,1-Dichloroethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.27	240	
1,1-Dichloroethylene	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.33	500	
1,1-Dichloropropylene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,2,3-Trichlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,2,3-Trichloropropane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,2,4-Trichlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,2,4-Trimethylbenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		3.6	190	
1,2-Dibromo-3-chloropropane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,2-Dibromoethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,2-Dichlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		1.1	500	
1,2-Dichloroethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.02	30	
1,2-Dichloropropane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,3,5-Trimethylbenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		8.4	190	
1,3-Dichlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		2.4	280	
1,3-Dichloropropane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
1,4-Dichlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		1.8	130	
1,4-Dioxane	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.1	130	
2,2-Dichloropropane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
2-Butanone	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.12	500	
2-Chlorotoluene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
4-Chlorotoluene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Acetone	ND		ND		ND		ND		ND		ND		1.19		ND		ND		0.05	500	
Benzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.06	44	
Bromobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Bromochloromethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Bromodichloromethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Bromoform	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Bromomethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Carbon disulfide	ND		ND		ND		0.00196		0.00183		ND		ND		ND		0.00203		NS	NS	
Carbon tetrachloride	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.76	22	
Chlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		1.1	500	
Chloroethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Chloroform	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.37	350	
Chloromethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
cis-1,2-Dichloroethylene	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.25	500	
cis-1,3-Dichloropropylene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Dibromochloromethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Dibromomethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Dichlorodifluoromethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Ethyl Benzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		1	390	
Hexachlorobutadiene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Isopropylbenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Methyl acetate	ND		ND		ND		ND		ND		ND		1.4		ND		ND		NS	NS	
Methyl tert-butyl ether (MTBE)	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.93	500	
Methylene chloride	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.05	500	
Naphthalene	NT		NT		NT		NT		NT		NT		NT		NT		NT		12	500	
n-Butylbenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		12	500	
n-Propylbenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		3.9	500	
o-Xylene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	100	
p- & m- Xylenes	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	100	
p-Isopropyltoluene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
sec-Butylbenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		11	500	
Styrene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
tert-Butylbenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		5.9	500	
Tetrachloroethylene	NT		NT		NT		NT		NT		NT		NT		NT		NT		1.3	150	
Toluene	ND		ND		ND		0.00102		J		0.0007		J		ND		0.032		J	0.7	500
trans-1,2-Dichloroethylene	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.19	500	
trans-1,3-Dichloropropylene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Trichloroethylene	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.47	200	
Trichlorofluoromethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Vinyl acetate	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS	
Vinyl Chloride	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.02	13	

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ND = this indicates the analyte was not detected for this sample

= this indicates exceeding USCO

Table 1 (Cont.)
Soil Samples Analytical Results for SVOCs
132-10 149th Avenue, Queens, NY

Sample ID	SB1A (1'-1.5')		SB1B (19'-19.5')		SB2A (1'-1.5')		SB2B (13'-13.5')		SB2B01 (13'-13.5')		SB3A (1.5'-2')		SB3B (13'-13.5')		SB4A (1-1.5')		SB4B (16.5'-17')		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Commercial
Sampling Date	4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013			
Client Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil			
Compound	Result		Result		Result		Result		Result		Result		Result		Result		Result			
Units	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/Kg	mg/Kg
1,2,4-Trichlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
1,2-Dichlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		1.1	500
1,3-Dichlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		2.4	280
1,4-Dichlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		1.8	130
2,4-Dinitrotoluene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
2,6-Dinitrotoluene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
2-Chloronaphthalene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
2-Methylnaphthalene	ND		ND		ND		0.131		0.166	J	ND		0.085		ND		ND		NS	NS
3,3'-Dichlorobenzidine	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
3-Nitroaniline	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
4-Bromophenyl phenyl ether	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
4-Chloroaniline	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
4-Chlorophenyl phenyl ether	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
4-Nitroaniline	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Acenaphthene	ND		ND		ND		0.148		0.144		ND		0.231		0.042		ND		20	500
Acenaphthylene	ND		ND		ND		0.064		J	0.108		0.052		0.076		ND		100	500	
Aniline	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Anthracene	ND		ND		0.042		0.19		0.26		0.09		0.618		0.149		ND		100	500
Benzo(a)anthracene	ND		ND		0.17		0.553		0.595		0.264		1.21		0.4		0.133		1	5.6
Benzo(a)pyrene	ND		ND		0.218		0.631		0.645		0.274		1.5		0.438		0.191		1	1
Benzo(b)fluoranthene	ND		ND		0.24		0.8		0.725		0.372		1.42		0.425		0.181		1	5.6
Benzo(g,h,i)perylene	ND		ND		0.233		0.501		0.374		0.15		1.08		0.28		0.50		100	500
Benzo(k)fluoranthene	ND		ND		0.219		0.53		0.57		0.252		1.01		0.35		0.148		0.8	56
Benzyl butyl phthalate	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Bis(2-chloroethoxy)methane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Bis(2-chloroethyl)ether	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Bis(2-chloroisopropyl)ether	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Bis(2-ethylhexyl)phthalate	ND		ND		ND		ND		ND		ND		1.39		ND		0.131		NS	NS
Butyl benzyl phthalate	ND		ND		0.652		ND		ND		ND		ND		ND		ND		NS	NS
Carbazole	ND		ND		ND		ND		ND		0.033	J	0.179		0.044		ND		NS	NS
Chrysene	ND		ND		0.205		0.776		0.816		0.256		1.33		0.41		0.167		1	56
Dibenzo(a,h)anthracene	ND		ND		0.81		0.242		0.213		0.09		0.446		0.1		0.039	J	0.33	NS
Dibenzofuran	ND		ND		ND		ND		ND		ND		0.083		ND		ND		7	NS
Diethyl phthalate	ND		ND		ND		ND		ND		ND		ND		ND		ND		NS	0.56
Dimethyl phthalate	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	350
Di-n-butyl phthalate	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Di-n-octyl phthalate	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Fluoranthene	ND		ND		0.271		1.05		1.29		0.275		2.21		0.844		0.191		100	500
Fluorene	ND		ND		0.171		0.182		0.182		ND		0.203		0.042		ND		30	500
Hexachlorobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.33	6
Hexachlorobutadiene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Hexachlorocyclopentadiene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Hexachloroethane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Indeno(1,2,3-cd)pyrene	ND		ND		0.176		0.493		0.447		0.145		0.894		0.253		0.100		0.5	5.6
Isophorone	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Naphthalene	ND		ND		ND		0.2		0.252		0.028	J	0.111		ND		0.03	J	12	NS
Nitrobenzene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
N-Nitrosodimethylamine	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
N-nitroso-di-n-propylamine	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	500
N-Nitrosodiphenylamine	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Phenanthrene	ND		ND		0.125		0.668		0.803		0.053		1.63		0.489		0.114		100	500
Pyrene	ND		ND		0.281		1.09		1.26		0.254		1.88		0.636		0.182		100	500
Pyridine	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS

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 = this indicates exceeding USCO

 = this indicates exceeding CSCO

Table 1 Cont.
Soil Samples Analytical Results for Pesticides and PCBs
132-10 149th Avenue, Queens, NY

Sample ID	SB1A (1'-1.5')		SB1B (19'-19.5')		SB2A (1'-1.5')		SB2B (13'-13.5')		SB2B01 (13'-13.5')		SB3A (1.5'-2')		SB3B (13'-13.5')		SB4A (1-1.5')		SB4B (16.5'-17')		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Commercial
	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		
4,4'-DDD	ND		ND		ND		ND		ND		ND		0.00329		ND		ND		0.0033	92
4,4'-DDE	ND		ND		ND		ND		ND		0.000262	J	0.00463		ND		ND		0.0033	62
4,4'-DDT	ND		ND		ND		ND		ND		0.000881		0.00938		0.00108		ND		0.0033	47
Aldrin	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.005	0.68
Alpha-BHC	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.02	3.4
Beta-BHC	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.036	3
Chlordane	ND		ND		0.8		ND		ND		0.000104		0.028		0.00146		0.00285		NS	NS
alpha-Chlordane	ND		ND		0.4		ND		ND		0.000475		0.015		0.000734		0.00144		NS	NS
gamma-Chlordane	ND		ND		0.4		ND		ND		0.000564		0.013		0.000728		0.00141		NS	NS
cis-Chlordane	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.094	NS
Delta-BHC	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.04	500
Dieldrin	ND		ND		ND		ND		ND		0.000621		0.00553		ND		ND		0.005	1.4
Endosulfan I	NT		NT		NT		NT		NT		NT		NT		NT		NT		2.4	200
Endosulfan II	NT		NT		NT		NT		NT		NT		NT		NT		NT		2.4	200
Endosulfan sulfate	NT		NT		NT		NT		NT		NT		NT		NT		NT		2.4	200
Endrin	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.014	89
Endrin ketone	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Heptachlor	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.042	15
Heptachlor epoxide	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Lindane	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.1	NS
Methoxychlor	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Toxaphene	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
trans-Chlordane	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Aroclor 1016	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Aroclor 1221	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Aroclor 1232	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Aroclor 1242	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Aroclor 1248	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Aroclor 1254	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Aroclor 1260	ND		ND		0.43		ND		ND		0.0079		0.045		0.00602		ND		NS	NS
Aroclor 1262	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
Aroclor 1268	NT		NT		NT		NT		NT		NT		NT		NT		NT		NS	NS
PCBs, Total	ND		ND		0.43		ND		ND		0.0079		0.045		0.00602		ND		0.1	1

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= this indicates exceeding USCO

Table 1 Cont.
Soil Samples Analytical Results for Metals
132-10 149th Avenue, Queens, NY

Sample ID	SB1A (1'-1.5')		SB1B (19'-19.5')		SB2A (1'-1.5')		SB2B (13'-13.5')		SB2B01 (13'-13.5')		SB3A (1.5'-2')		SB3B (13'-13.5')		SB4A (1-1.5')		SB4B (16.5'-17')		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Commercial
	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		
Aluminum	4,360		3,270		1.21	J	3,990		4,910		5,350		6,670		8,220		5,970		NS	NS
Antimony	0.335	J	ND		15.3		ND		ND		ND		ND		ND		ND		NS	NS
Arsenic	1.44		0.709		775		2.66		3.5		2.04		3.76		1.59		3.62		13	16
Barium	49		6.29	J	0.375	J	46.2		103		54.3		94.7		50.9		86.6		350	400
Beryllium	ND		ND		2.22		ND		0.251	J	0.26	J	ND		0.245	J	0.332	J	7.2	590
Cadmium	ND		ND		4,880		0.291	J	0.293	J	0.163	J	1.13		ND		1.68		2.5	9.3
Calcium	300		61.8	J	28.6		5,980		6,790		265		3,300		561		854		NS	NS
Chromium	10.8		6.34		6.17		8.54		9.09		13		29.8		14.5		12.6		NS	NS
Cobalt	3.53		2.33	J	347		2.67	J	3.73		4.26		5		4.84		2.14	J	NS	NS
Copper	16.7		4.15		37,300		75.7		45.7		22.3		119		19.4		29.1		50	270
Iron	12,500		5,510		1,410		23,700		150,000		14,000		16,000		12,500		8,080		NS	NS
Lead	13.4		1.24		10,500		147		149		70.7		195		76.8		447		63	1000
Magnesium	1610		842		344		15,100		11,900		1,410		4,180		1,990		1030		NS	NS
Manganese	156		33.4		344		279		235		195		217		255		70.8		1600	10000
Mercury	0.035		ND		0.918		0.131		0.1		0.047		0.337		0.066		0.349		0.18	2.8
Nickel	8.87		6.57		28.1		8.07		8.06		10.2		15.8		10.3		8.09		30	310
Potassium	805		326		754		452		560		574		1,470		1,340		320		NS	NS
Selenium	ND		ND		3.79		ND		ND		ND		ND		ND		ND		3.9	1500
Silver	ND		ND		1.56		ND		ND		ND		ND		ND		0.359	J	2	1500
Sodium	130		94.1	J	541		137	J	195		115	J	260		472		297		NS	NS
Thallium	0.236	J	0.238	J	0.221	J	ND		ND		ND		ND		ND		ND		NS	NS
Vanadium	12.9		6.38		20.2		13.3		13.7		15.4		26.9		20		12.8		NS	NS
Zinc	42.6		8.6		1,220		101		112		58.2		237		445		538		109	10000
Chromium, Hexavalent	NT		NT		NT		NT		NT		NT		NT		NT		NT		1	400
Chromium, Trivalent	NT		NT		NT		NT		NT		NT		NT		NT		NT		30	180

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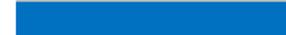
 = this indicates exceeding CSCO

Table 2
Groundwater Samples Analytical Results for VOCs
132-10 149th Avenue, Queens, NY

Sample ID	TWP1		TWP1F		TWP101		TWP101F		TWP2		TWP2F		FB-1		FB-2		Trip Blank		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		
Matrix	Groundwater		Soil		Groundwater		Groundwater												
Units	ug/L		mg/L		ug/L		ug/L												
Compound	Result	Q	Result	Q	Result	Q	Result	Q											
Total Vos	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS

Q is the Qualifier Column with definitions as follows:

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

NT=this indicates the analyte was not a target for this sample

NS = this indicates the analyte has no standard for this sample

ND = this indicates the analyte was not detected for this sample

Table 2 (Cont.)
Groundwater Samples Analytical Results for SVOCs
132-10 149th Avenue, Queens, NY

Sample ID	TWP1		TWP1F		TWP101		TWP101F		TWP2		TWP2F		FB-1		FB-2		Trip Blank		NYSDEC TOGS Standards and Guidance Values - GA
	4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		
Matrix	Groundwater		Soil		Groundwater		Groundwater												
Units	ug/L		mg/L		ug/L		ug/L												
Compound	Result	Q	Result	Q	Result	Q	Result	Q											
1,2,4-Trichlorobenzene	NT		NT		NT		NT		5										
1,2-Dichlorobenzene	NT		NT		NT		NT		3										
1,3-Dichlorobenzene	NT		NT		NT		NT		3										
1,4-Dichlorobenzene	NT		NT		NT		NT		3										
2,4,5-Trichlorophenol	NT		NT		NT		NT		1										
2,4,6-Trichlorophenol	NT		NT		NT		NT		1										
2,4-Dichlorophenol	NT		NT		NT		NT		5										
2,4-Dimethylphenol	NT		NT		NT		NT		50										
2,4-Dinitrophenol	NT		NT		NT		NT		10										
2,4-Dinitrotoluene	NT		NT		NT		NT		5										
2,6-Dinitrotoluene	NT		NT		NT		NT		5										
2-Chloronaphthalene	NT		NT		NT		NT		10										
2-Chlorophenol	NT		NT		NT		NT		1										
2-Methylnaphthalene	NT		NT		NT		NT		NS										
2-Methylphenol	NT		NT		NT		NT		1										
2-Nitroaniline	NT		NT		NT		NT		5										
2-Nitrophenol	NT		NT		NT		NT		1										
3- & 4-Methylphenols	NT		NT		NT		NT		5										
3,3'-Dichlorobenzidine	NT		NT		NT		NT		NS										
3-Nitroaniline	NT		NT		NT		NT		5										
4,6-Dinitro-2-methylphenol	NT		NT		NT		NT		NS										
4-Bromophenyl phenyl ether	NT		NT		NT		NT		NS										
4-Chloro-3-methylphenol	NT		NT		NT		NT		1										
4-Chloroaniline	NT		NT		NT		NT		5										
4-Chlorophenyl phenyl ether	NT		NT		NT		NT		NS										
4-Nitroaniline	NT		NT		NT		NT		5										
4-Nitrophenol	NT		NT		NT		NT		1										
Acenaphthene	18.3		NT		17.6		NT		ND		NT		ND		NT		NT		20
Acenaphthylene	NT		NT		NT		NT		NS										
Aniline	NT		NT		NT		NT		5										
Anthracene	NT		NT		NT		NT		50										
Benzo(a)anthracene	NT		NT		NT		NT		0.002										
Benzo(a)pyrene	NT		NT		NT		NT		0.002										
Benzo(b)fluoranthene	NT		NT		NT		NT		0.002										
Benzo(g,h,i)perylene	NT		NT		NT		NT		NS										
Benzo(k)fluoranthene	NT		NT		NT		NT		0.002										
Benzyl alcohol	NT		NT		NT		NT		NS										
Benzyl butyl phthalate	NT		NT		NT		NT		50										
Bis(2-chloroethoxy)methane	NT		NT		NT		NT		5										
Bis(2-chloroethyl)ether	NT		NT		NT		NT		1										
Bis(2-chloroisopropyl)ether	NT		NT		NT		NT		5										
Bis(2-ethylhexyl)phthalate	0.619	J	NT		ND		NT		ND		NT		ND		ND		NT		5
Carbazole	0.571	J	NT		0.504	J	NT		ND		NT		ND		ND		NT		NS
Chrysene	NT		NT		NT		NT		0.002										
Dibenzo(a,h)anthracene	NT		NT		NT		NT		50										
Dibenzofuran	0.741	J	NT		0.853	J	NT		ND		NT		ND		ND		NT		50
Diethyl phthalate	NT		NT		NT		NT		NS										
Dimethyl phthalate	NT		NT		NT		NT		NS										
Di-n-butyl phthalate	NT		NT		NT		NT		50										
Di-n-octyl phthalate	NT		NT		NT		NT		50										
Fluoranthene	NT		NT		NT		NT		50										
Fluorene	6.28		NT		7.03		NT		ND		NT		ND		ND		NT		50
Hexachlorobenzene	NT		NT		NT		NT		0.04										
Hexachlorobutadiene	NT		NT		NT		NT		0.5										
Hexachlorocyclopentadiene	NT		NT		NT		NT		5										
Hexachloroethane	NT		NT		NT		NT		5										
Indeno(1,2,3-cd)pyrene	NT		NT		NT		NT		0.002										
Isophorone	NT		NT		NT		NT		50										
Naphthalene	0.999	J	NT		0.965	J	NT		ND		NT		ND		ND		NT		NS
Nitrobenzene	NT		NT		NT		NT		NS										
N-Nitrosodimethylamine	NT		NT		NT		NT		50										
N-nitroso-di-n-propylamine	NT		NT		NT		NT		10										
N-Nitrosodiphenylamine	NT		NT		NT		NT		0.4										
Pentachlorophenol	NT		NT		NT		NT		1										
Phenanthrene	NT		NT		NT		NT		50										
Phenol	NT		NT		NT		NT		1										
Pyrene	NT		NT		NT		NT		50										
Pyridine	NT		NT		NT		NT		50										

Q is the Qualifier Column with definitions as follows:

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

NT=this indicates the analyte was not a target for this sample

NS = this indicates the analyte has no standard for this sample

ND = this indicates the analyte was not detected for this sample

Table 2 (Cont.)
Groundwater Samples Analytical Results for Metals
132-10 149th Avenue, Queens, NY

Sample ID	TWP1		TWP1F		TWP101		TWP101F		TWP2		TWP2F		FB-1		FB-2		Trip Blank		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		
Matrix	Groundwater		Soil		Groundwater		Groundwater												
Units	ug/L		mg/L		ug/L		ug/L												
Compound	Result	Q	Result	Q	Result	Q	Result	Q											
Aluminum	271		ND		264		33.1	J	13,600		35.1	J	ND		ND		NT		NS
Antimony	NT		NT		NT		NT		3										
Arsenic	1.49	J	1.08	J	1.39	J	1.37	J	2.68		ND		ND		ND		NT		25
Barium	81.9		71		71.2		78.3		105		47.5		ND		ND		NT		1000
Beryllium	NT		NT		NT		NT		3										
Cadmium	NT		NT		NT		NT		5										
Calcium	123,000		114,000		119,000		120,000		76,000		71,300		ND		ND		NT		NS
Chromium	2.03	J	ND		61.8		57.5		204		58		ND		ND		NT		50
Cobalt	ND		ND		ND		ND		6.63		ND		ND		ND		NT		NS
Copper	ND		ND		14.9		ND		109		ND		ND		ND		NT		200
Iron	9,680		8,350		8,990		9,330		28,000		14,800		ND		ND		NT		NS
Lead	3.52		ND		3.18		ND		44.8		ND		ND		ND		NT		25
Magnesium	137,000		12,600		13,000		13,400		12,500		10,900		ND		ND		NT		35000
Manganese	470		415		421		446		505		390		ND		ND		NT		300
Mercury	NT		NT		NT		NT		0.7										
Nickel	ND		ND		ND		ND		13.2		ND		ND		ND		NT		100
Potassium	8,150		7,530		7,720		7,970		6,170		5,360		ND		ND		NT		NS
Selenium	NT		NT		NT		NT		10										
Silver	NT		NT		NT		NT		50										
Sodium	132,000		119,000		120,000		130,000		213,000		208,000		ND		ND		NT		20000
Thallium	NT		NT		NT		NT		NS										
Vanadium	2.8	J	ND		2.69	J	ND		62.8		ND		ND		ND		NT		NS
Zinc	16.5		14.3		13.9		10.9		77.7		5.34	J	ND		ND		NT		2000

Q is the Qualifier Column with definitions as follows:

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

B=analyte found in the analysis batch blank

NT=this indicates the analyte was not a target for this sample

NS = this indicates the analyte has no standard for this sample

ND = this indicates the analyte was not detected for this sample

= this indicates exceeding GQS

Table 2 (Cont.)
Groundwater Samples Analytical Results for Pesticides and PCBs
132-10 149th Avenue, Queens, NY

Sample ID	TWP1		TWP1F		TWP101		TWP101F		TWP2		TWP2F		FB-1		FB-2		Trip Blank		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		4/18/2013		
Matrix	Groundwater		Soil		Groundwater		Groundwater												
Units	ug/L		mg/L		ug/L		ug/L												
Compound	Result	Q	Result	Q	Result	Q	Result	Q											
4,4'-DDD	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.3
4,4'-DDE	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.2
4,4'-DDT	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.2
Aldrin	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
alpha-BHC	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
Alpha-Chlordane	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
Aroclor 1016	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.09
Aroclor 1221	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.09
Aroclor 1232	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.09
Aroclor 1242	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.09
Aroclor 1248	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.09
Aroclor 1254	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.09
Aroclor 1260	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.09
Aroclor 1262	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
Aroclor 1268	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
beta-BHC	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
Chlordane, total	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.05
delta-BHC	NT		NT		NT		NT		NS										
Dieldrin	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
Endosulfan I	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
Endosulfan II	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
Endosulfan sulfate	NT		NT		NT		NT		NS										
Endrin	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
Endrin aldehyde	ND		NT		ND		NT		ND		NT		ND		ND		NT		5
Endrin ketone	ND		NT		ND		NT		ND		NT		ND		ND		NT		5
gamma-BHC (Lindane)	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
gamma-Chlordane	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS
Heptachlor	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.04
Heptachlor epoxide	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.03
Methoxychlor	ND		NT		ND		NT		ND		NT		ND		ND		NT		35
Total PCBs	ND		NT		ND		NT		ND		NT		ND		ND		NT		0.09
Toxaphene	ND		NT		ND		NT		ND		NT		ND		ND		NT		NS

NOTES:

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

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

Table 2
Soil Vapor Analytical Results
32-10 149th Avenue, Queens, NY

Sample ID	SG-1		SG-2		SV-1		SV-2		SV-3		SV-4	
Sampling Date	4/18/2014		4/18/2014		7/17/2014		7/17/2014		7/17/2014		7/17/2014	
Client Matrix	Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
Compound	Result		Result		Result		Result		Result		Result	
Units	ug/ m3	Q		Q	ug/ m3	Q	ug/ m3	Q	ug/ m3	Q	ug/ m3	Q
1,1,1-Trichloroethane	NT		NT		12	U	12	U	11	U	11	U
1,1,2,2-Tetrachloroethane	NT		NT		15	U	15	U	14	U	14	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NT		NT		17	U	16	U	15	U	15	U
1,1,2-Trichloroethane	NT		NT		12	U	12	U	11	U	11	U
1,1-Dichloroethane	NT		NT		8.90	U	8.70	U	8.20	U	8	U
1,1-Dichloroethylene	NT		NT		8.70	U	8.50	U	8	U	7.80	U
1,2,4-Trichlorobenzene	NT		NT		16	U	16	U	15	U	15	U
1,2,4-Trimethylbenzene	6.9	D	7.5	D	60	D	71	D	110	D	66	D
1,2-Dibromoethane	NT		NT		17	U	16	U	15	U	15	U
1,2-Dichlorobenzene	NT		NT		13	U	13	U	12	U	12	U
1,2-Dichloroethane	NT		NT		8.90	U	8.70	U	8.20	U	8	U
1,2-Dichloropropane	NT		NT		10	U	9.90	U	9.30	U	9.10	U
1,2-Dichlorotetrafluoroethane	NT		NT		15	U	15	U	14	U	14	U
1,3,5-Trimethylbenzene	160	D	150	D	16	D	19	D	26	D	17	D
1,3-Butadiene	NT		NT		9.50	U	9.30	U	8.70	U	8.60	U
1,3-Dichlorobenzene	NT		NT		13	U	13	U	12	U	12	U
1,4-Dichlorobenzene	NT		NT		13	U	13	U	12	U	12	U
1,4-Dioxane	NT		NT		7.90	U	7.70	U	7.30	U	7.10	U
2-Butanone	NT		NT		16	D	24	D	24	D	26	D
2-Hexanone	NT		NT		18	U	18	U	17	U	16	U
4-Methyl-2-pentanone	NT		NT		9	U	8.80	U	8.30	U	8.10	U
Acetone	6,800	D	1,400	D	200	BD	230	BD	180	BD	180	BD
Benzene	23	D	21	D	11	D	8.20	D	12	D	7.60	D
Benzyl chloride	NT		NT		11	U	11	U	10	U	10	U
Bromodichloromethane	NT		NT		14	U	13	U	13	U	12	U
Bromoform	NT		NT		23	U	22	U	21	U	20	U
Bromomethane	13	D	5.4	D	8.50	U	8.30	U	7.80	U	7.70	U
Carbon disulfide	NT		NT		10	D	10	D	6.30	U	6.20	U
Carbon tetrachloride	NT		NT		3.40	U	3.40	U	3.20	U	3.10	U
Chlorobenzene	NT		NT		10	U	9.90	U	9.30	U	9.10	U
Chloroethane	NT		NT		5.80	U	5.70	U	5.30	U	5.20	U
Chloroform	NT		NT		11	U	10	U	9.80	U	9.60	U
Chloromethane	5.1	D	2.4	D	4.50	U	4.40	U	4.20	U	4.10	U
cis-1,2-Dichloroethylene	NT		NT		8.70	U	8.50	U	8	U	7.80	U
cis-1,3-Dichloropropylene	NT		NT		9.90	U	9.70	U	9.10	U	9	U
Cyclohexane	13	D	19	D	7.50	U	17	D	6.90	U	6.80	U
Dibromochloromethane	NT		NT		18	U	17	U	16	U	16	U
Dichlorodifluoromethane	NT		NT		11	U	11	U	10	U	9.80	U
Ethyl acetate	NT		NT		16	U	15	U	15	U	14	U
Ethyl Benzene	3.5	U	20	D	21	D	22	D	33	D	18	D
Hexachlorobutadiene	NT		NT		23	U	23	U	22	U	21	U
Isopropanol	NT		NT		16	D	23	D	22	D	13	D
Methyl Methacrylate	NT		NT		9	U	8.80	U	8.20	U	8.10	U
Methyl tert-butyl ether (MTBE)	NT		NT		7.90	U	7.70	U	7.30	U	7.10	U
Methylene chloride	6.3	D	3.6	D	15	U	15	U	36	D	14	U
Methyl ethyl ketone	160	D	450	D	NT		NT		NT		NT	
Methyl isobutyl ketone	3.8	D	7.9	D	NT		NT		NT		NT	
n-Heptane	63	D	77	D	30	D	42	D	12	D	8.10	U
n-Hexane	51	D	57	D	82	D	73	D	28	D	7.70	D
o-Xylene	13	D	13	D	30	D	34	D	49	D	28	D
p- & m- Xylenes	48	D	50	D	100	D	110	D	160	D	92	D
p-Ethyltoluene	NT		NT		52	D	55	D	86	D	51	D
Propylene	NT		NT		3.80	U	3.70	U	3.50	U	3.40	U
Styrene	NT		NT		9.30	U	9.10	U	8.60	U	8.40	U
Tert-butyl alcohol	58	D	120	D	NT		NT		NT		NT	
Tetrachloroethylene	NT		NT		3.70	U	3.60	U	3.40	U	3.40	U
Tetrahydrofuran	NT		NT		6.50	U	6.30	U	11	D	7.60	D
Toluene	110	D	110	D	69	D	70	D	100	D	57	D
trans-1,2-Dichloroethylene	NT		NT		8.70	U	8.50	U	8	U	7.80	U
trans-1,3-Dichloropropylene	NT		NT		9.90	U	9.70	U	9.10	U	9	U
Trichloroethene	2.6	D	2.6	D	NT		NT		NT		NT	
Trichloroethylene	NT		NT		2.90	U	2.90	U	29	D	2.70	U
Trichlorofluoromethane (Freon 11)	NT		NT		12	U	12	U	17	D	11	U
Vinyl acetate	NT	NT	NT		7.10	U	7	U	7.70	U	7.60	U
Vinyl Chloride	NT	NT	NT		2.60	U	2.50	U	2.80	U	2.70	U

NOTES:

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

NT=this indicates the analyte was not a target for this sample

APPENDICES

APPENDIX A

**PHASE-I ESA AND PHASE II SITE INVESTIGATION REPORTS (CD-
ROM)**

APPENDIX B PHOTOGRAPHS

PHOTOGRAPHS

APPENDIX C

SOIL VAPOR SAMPLING LOG

APPENDIX D

LABORATORY DATA DELIVERABLES FOR SOIL VAPOR ANALYTICAL DATA



Technical Report

prepared for:

Hydro Tech Environmental (Hauppauge)
77 Arkay Drive, Suite G
Hauppauge NY, 11788
Attention: Paul Matli

Report Date: 07/23/2014
Client Project ID: 132-10 149th Ave Queens, NY
York Project (SDG) No.: 14G0730

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 07/23/2014
Client Project ID: 132-10 149th Ave Queens, NY
York Project (SDG) No.: 14G0730

Hydro Tech Environmental (Hauppauge)

77 Arkay Drive, Suite G
Hauppauge NY, 11788
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 July 18, 2014 and listed below. The project was identified as your project: **132-10 149th Ave Queens, 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>
14G0730-01	SV-1 (S08)	Soil Vapor	07/17/2014	07/18/2014
14G0730-02	SV-2 (S02)	Soil Vapor	07/17/2014	07/18/2014
14G0730-03	SV-3 (S31)	Soil Vapor	07/17/2014	07/18/2014
14G0730-04	SV-4 (S29)	Soil Vapor	07/17/2014	07/18/2014

General Notes for York Project (SDG) No.: 14G0730

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:



Benjamin Gulizia
Laboratory Director

Date: 07/23/2014





Sample Information

Client Sample ID: SV-1 (S08)

York Sample ID: 14G0730-01

York Project (SDG) No.
14G0730

Client Project ID
132-10 149th Ave Queens, NY

Matrix
Soil Vapor

Collection Date/Time
July 17, 2014 3:00 pm

Date Received
07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	2.8	2.8	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	7.7	7.7	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
79-01-6	Trichloroethylene	ND		ug/m ³	2.9	2.9	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	9.9	9.9	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	8.7	8.7	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
108-88-3	Toluene	69		ug/m ³	8.3	8.3	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	6.5	6.5	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
127-18-4	Tetrachloroethylene	ND		ug/m ³	3.7	3.7	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
100-42-5	Styrene	ND		ug/m ³	9.3	9.3	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
115-07-1	* Propylene	ND		ug/m ³	3.8	3.8	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
622-96-8	* p-Ethyltoluene	52		ug/m ³	11	11	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
179601-23-1	p- & m- Xylenes	100		ug/m ³	19	19	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
95-47-6	o-Xylene	30		ug/m ³	9.5	9.5	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
110-54-3	n-Hexane	82		ug/m ³	7.7	7.7	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
142-82-5	n-Heptane	30		ug/m ³	9.0	9.0	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
75-09-2	Methylene chloride	ND		ug/m ³	15	15	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	7.9	7.9	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	9.0	9.0	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
67-63-0	Isopropanol	16		ug/m ³	11	11	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	23	23	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
100-41-4	Ethyl Benzene	21		ug/m ³	9.5	9.5	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	16	16	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
110-82-7	Cyclohexane	ND		ug/m ³	7.5	7.5	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	9.9	9.9	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	8.7	8.7	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
74-87-3	Chloromethane	ND		ug/m ³	4.5	4.5	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
67-66-3	Chloroform	ND		ug/m ³	11	11	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
75-00-3	Chloroethane	ND		ug/m ³	5.8	5.8	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	3.4	3.4	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
75-15-0	Carbon disulfide	10		ug/m ³	6.8	6.8	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
74-83-9	Bromomethane	ND		ug/m ³	8.5	8.5	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
75-25-2	Bromoform	ND		ug/m ³	23	23	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	14	14	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	11	11	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
71-43-2	Benzene	11		ug/m ³	7.0	7.0	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
67-64-1	Acetone	200	B	ug/m ³	5.2	5.2	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	18	18	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD
78-93-3	2-Butanone	16		ug/m ³	6.5	6.5	21.91	EPA TO-15	07/22/2014 18:12	07/23/2014 03:31	ALD



Sample Information

Client Sample ID: SV-1 (S08)

York Sample ID: 14G0730-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes data for various organic compounds and surrogate recoveries.

Sample Information

Client Sample ID: SV-2 (S02)

York Sample ID: 14G0730-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes data for Vinyl Chloride and Vinyl acetate.



Sample Information

Client Sample ID: SV-2 (S02)

York Sample ID: 14G0730-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
79-01-6	Trichloroethylene	ND		ug/m ³	2.9	2.9	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	9.7	9.7	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	8.5	8.5	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
108-88-3	Toluene	70		ug/m ³	8.1	8.1	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	6.3	6.3	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
127-18-4	Tetrachloroethylene	ND		ug/m ³	3.6	3.6	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
100-42-5	Styrene	ND		ug/m ³	9.1	9.1	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
115-07-1	* Propylene	ND		ug/m ³	3.7	3.7	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
622-96-8	* p-Ethyltoluene	55		ug/m ³	11	11	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
179601-23-1	p- & m- Xylenes	110		ug/m ³	19	19	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
95-47-6	o-Xylene	34		ug/m ³	9.3	9.3	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
110-54-3	n-Hexane	73		ug/m ³	7.6	7.6	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
142-82-5	n-Heptane	42		ug/m ³	8.8	8.8	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
75-09-2	Methylene chloride	ND		ug/m ³	15	15	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	7.7	7.7	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	8.8	8.8	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
67-63-0	Isopropanol	23		ug/m ³	11	11	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	23	23	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
100-41-4	Ethyl Benzene	22		ug/m ³	9.3	9.3	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	15	15	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
110-82-7	Cyclohexane	17		ug/m ³	7.4	7.4	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	9.7	9.7	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	8.5	8.5	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
74-87-3	Chloromethane	ND		ug/m ³	4.4	4.4	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
67-66-3	Chloroform	ND		ug/m ³	10	10	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
75-00-3	Chloroethane	ND		ug/m ³	5.7	5.7	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	3.4	3.4	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
75-15-0	Carbon disulfide	10		ug/m ³	6.7	6.7	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
74-83-9	Bromomethane	ND		ug/m ³	8.3	8.3	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
75-25-2	Bromoform	ND		ug/m ³	22	22	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	13	13	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	11	11	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
71-43-2	Benzene	8.2		ug/m ³	6.9	6.9	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
67-64-1	Acetone	230	B	ug/m ³	5.1	5.1	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	18	18	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
78-93-3	2-Butanone	24		ug/m ³	6.3	6.3	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	7.7	7.7	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	13	13	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	13	13	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD



Sample Information

Client Sample ID: SV-2 (S02)

York Sample ID: 14G0730-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ					
106-99-0	1,3-Butadiene	ND		ug/m ³	9.3	9.3	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
108-67-8	1,3,5-Trimethylbenzene	19		ug/m ³	11	11	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	15	15	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	9.9	9.9	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	8.7	8.7	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	13	13	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
95-63-6	1,2,4-Trimethylbenzene	71		ug/m ³	11	11	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	16	16	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	8.5	8.5	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	8.7	8.7	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	12	12	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	12	12	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	16	16	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	15	15	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	12	12	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	11	11	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	16	16	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	17	17	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	8.8	8.8	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	9.9	9.9	21.45	EPA TO-15	07/22/2014 18:12	07/23/2014 04:20	ALD
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	92.4 %			72-118						

Sample Information

Client Sample ID: SV-3 (S31)

York Sample ID: 14G0730-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ					
75-01-4	Vinyl Chloride	ND		ug/m ³	2.6	2.6	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	7.1	7.1	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
79-01-6	Trichloroethylene	29		ug/m ³	2.7	2.7	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	9.1	9.1	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	8.0	8.0	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD



Sample Information

Client Sample ID: SV-3 (S31)

York Sample ID: 14G0730-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
108-88-3	Toluene	100		ug/m ³	7.6	7.6	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
109-99-9	* Tetrahydrofuran	11		ug/m ³	5.9	5.9	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
127-18-4	Tetrachloroethylene	ND		ug/m ³	3.4	3.4	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
100-42-5	Styrene	ND		ug/m ³	8.6	8.6	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
115-07-1	* Propylene	ND		ug/m ³	3.5	3.5	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
622-96-8	* p-Ethyltoluene	86		ug/m ³	9.9	9.9	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
179601-23-1	p- & m- Xylenes	160		ug/m ³	18	18	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
95-47-6	o-Xylene	49		ug/m ³	8.8	8.8	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
110-54-3	n-Hexane	28		ug/m ³	7.1	7.1	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
142-82-5	n-Heptane	12		ug/m ³	8.3	8.3	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
75-09-2	Methylene chloride	36		ug/m ³	14	14	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	7.3	7.3	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	8.3	8.3	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
67-63-0	Isopropanol	22		ug/m ³	9.9	9.9	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	22	22	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
100-41-4	Ethyl Benzene	33		ug/m ³	8.8	8.8	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	15	15	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
110-82-7	Cyclohexane	ND		ug/m ³	6.9	6.9	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	9.1	9.1	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	8.0	8.0	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
74-87-3	Chloromethane	ND		ug/m ³	4.2	4.2	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
67-66-3	Chloroform	ND		ug/m ³	9.8	9.8	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
75-00-3	Chloroethane	ND		ug/m ³	5.3	5.3	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	3.2	3.2	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
75-15-0	Carbon disulfide	ND		ug/m ³	6.3	6.3	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
74-83-9	Bromomethane	ND		ug/m ³	7.8	7.8	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
75-25-2	Bromoform	ND		ug/m ³	21	21	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	13	13	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	10	10	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
71-43-2	Benzene	12		ug/m ³	6.4	6.4	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
67-64-1	Acetone	180	B	ug/m ³	4.8	4.8	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	17	17	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
78-93-3	2-Butanone	24		ug/m ³	5.9	5.9	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	7.3	7.3	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	12	12	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	12	12	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	8.7	8.7	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
108-67-8	1,3,5-Trimethylbenzene	26		ug/m ³	9.9	9.9	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	14	14	20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD



Sample Information

Client Sample ID: SV-3 (S31)

York Sample ID: 14G0730-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
78-87-5	1,2-Dichloropropane	ND		ug/m ³	9.3	9.3		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	8.2	8.2		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	12	12		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
95-63-6	1,2,4-Trimethylbenzene	110		ug/m ³	9.9	9.9		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	15	15		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	8.0	8.0		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	8.2	8.2		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	17		ug/m ³	11	11		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	11	11		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	15	15		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	14	14		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	11	11		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	10	10		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	15	15		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	16	16		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	8.2	8.2		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	9.3	9.3		20.16	EPA TO-15	07/22/2014 18:12	07/23/2014 05:10	ALD
Surrogate Recoveries		Result	Acceptance Range									
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	91.0 %	72-118									

Sample Information

Client Sample ID: SV-4 (S29)

York Sample ID: 14G0730-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
75-01-4	Vinyl Chloride	ND		ug/m ³	2.5	2.5		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	7.0	7.0		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
79-01-6	Trichloroethylene	ND		ug/m ³	2.7	2.7		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	9.0	9.0		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	7.8	7.8		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
108-88-3	Toluene	57		ug/m ³	7.4	7.4		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
109-99-9	* Tetrahydrofuran	7.6		ug/m ³	5.8	5.8		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
127-18-4	Tetrachloroethylene	ND		ug/m ³	3.4	3.4		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD



Sample Information

Client Sample ID: SV-4 (S29)

York Sample ID: 14G0730-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
100-42-5	Styrene	ND		ug/m ³	8.4	8.4	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
115-07-1	* Propylene	ND		ug/m ³	3.4	3.4	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
622-96-8	* p-Ethyltoluene	51		ug/m ³	9.7	9.7	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
179601-23-1	p- & m- Xylenes	92		ug/m ³	17	17	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
95-47-6	o-Xylene	28		ug/m ³	8.6	8.6	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
110-54-3	n-Hexane	7.7		ug/m ³	7.0	7.0	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
142-82-5	n-Heptane	ND		ug/m ³	8.1	8.1	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
75-09-2	Methylene chloride	ND		ug/m ³	14	14	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	7.1	7.1	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	8.1	8.1	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
67-63-0	Isopropanol	13		ug/m ³	9.7	9.7	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	21	21	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
100-41-4	Ethyl Benzene	18		ug/m ³	8.6	8.6	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	14	14	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
110-82-7	Cyclohexane	ND		ug/m ³	6.8	6.8	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	9.0	9.0	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	7.8	7.8	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
74-87-3	Chloromethane	ND		ug/m ³	4.1	4.1	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
67-66-3	Chloroform	ND		ug/m ³	9.6	9.6	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
75-00-3	Chloroethane	ND		ug/m ³	5.2	5.2	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	3.1	3.1	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
75-15-0	Carbon disulfide	ND		ug/m ³	6.2	6.2	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
74-83-9	Bromomethane	ND		ug/m ³	7.7	7.7	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
75-25-2	Bromoform	ND		ug/m ³	20	20	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	12	12	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	10	10	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
71-43-2	Benzene	7.6		ug/m ³	6.3	6.3	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
67-64-1	Acetone	180	B	ug/m ³	4.7	4.7	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	16	16	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
78-93-3	2-Butanone	26		ug/m ³	5.8	5.8	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	7.1	7.1	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	12	12	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	12	12	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	8.6	8.6	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
108-67-8	1,3,5-Trimethylbenzene	17		ug/m ³	9.7	9.7	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	14	14	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	9.1	9.1	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	8.0	8.0	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	12	12	19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD



Sample Information

Client Sample ID: SV-4 (S29)

York Sample ID: 14G0730-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14G0730

132-10 149th Ave Queens, NY

Soil Vapor

July 17, 2014 3:00 pm

07/18/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
95-63-6	1,2,4-Trimethylbenzene	66		ug/m ³	9.7	9.7		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	15	15		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	7.8	7.8		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	8.0	8.0		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	11	11		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	11	11		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	15	15		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	14	14		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	11	11		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	9.8	9.8		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	15	15		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	16	16		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	8.1	8.1		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	9.1	9.1		19.76	EPA TO-15	07/22/2014 18:12	07/23/2014 06:00	ALD
Surrogate Recoveries		Result			Acceptance Range							
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	91.1 %			72-118							



Notes and Definitions

QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
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.
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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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.	
If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.	
2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.	
Certification for pH is no longer offered by NYDOH ELAP.	
Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.	

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.

York Project No. 14G-0730

YOUR Information Company: <u>Hydro Tech</u> Address: <u>77 Antay Drive</u> <u>Flarrying NY 11788</u> Phone No: <u>609-4162-5826</u> Contact Person: <u>ProthChelam</u> E-Mail Address: <u>Paul</u>		Report To: Company: <u>SA</u> Address: <u>4 E</u> Phone No. <u>4 E</u> Attention: <u>E</u> E-Mail Address:		Invoice To: Company: <u>SA</u> Address: <u>4 E</u> Phone No. <u>4 E</u> Attention: <u>E</u> E-Mail Address:		YOUR Project ID <u>Ba-10 1490 Ape</u> <u>Queens NY</u> Purchase Order No. <u>3978</u> Samples from: CT <u>NY</u> NJ		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 <u>(5) Days</u> <input checked="" type="checkbox"/>		Report Type/Deliverables Summary Report _____ Summary w/ QA Summary _____ CT RCP Package _____ NY ASP A Package _____ NY ASP B/CLP Pkg _____ NJDEP Reduced _____ Electronic Deliverables: _____ EDD (Specify Type) _____ Standard Excel _____ Regulatory Comparison Excel _____	
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Print Clearly and Legibly: All information must be completed. Samples will NOT be logged in and the Turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Silvestre Castib
Silvestre Castib
Name (printed)

EPA TO-15 List NYSDEC VI list NYSDEC STARS List Project Specific List by TO-15 NJDEP Target List CTDEP RCP Target List	Tentatively Identified Compounds Air VPH Helium Methane OTHER	Detection Limits Required ≤ 1 ug/m ³ NYSDEC VI Limits (VI weight adjusted) NJDEP low level Routine Survey Other
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Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Choose Analytes Needed from the Menu Above and Enter Below	Sampling Media
SV-1 (S08)	7/17/14	AS	-30	-10	TO-15	6 Liter Summa canister Tedlar Bag
SV-2 (S02)			-30	-10		6 Liter Summa canister Tedlar Bag
SV-3 (S31)			-29	-4		6 Liter Summa canister Tedlar Bag
SV-4 (S09)			-30	-4		6 Liter Summa canister 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
						6 Liter Summa canister Tedlar Bag
						6 Liter Summa canister Tedlar Bag
						6 Liter Summa canister Tedlar Bag

Comments

Samples Relinquished By [Signature] Date/Time 7/18/14

Samples Relinquished By [Signature] Date/Time 7-18-14 1640

Samples Received By K. Baker Date/Time 7/18/14 1135 AM

Samples Received in LAB by [Signature] Date/Time 7-18-14 1640