

533-537 FLUSHING AVENUE

BROOKLYN, NEW YORK 11205

Remedial Investigation Report

OER Site Number: 14EHAN422K

Prepared for:

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REMEDIAL INVESTIGATION REPORT

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

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

CERTIFICATION

I, Kevin Brussee, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Redevelopment Project located at 533-537 Flushing Avenue, Brooklyn, NY, (NYC VCP Site No. 15CVCP012K). 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.

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 533-537 Flushing Avenue in the Williamsburg section of Brooklyn, New York, and is currently identified as Block 2263, Lot 52 on the New York City Tax Map. Figure 1 shows the Site location. Lot 52 is a triangular shaped lot located on the northwest corner of the intersection of Flushing Avenue and Lee Avenue. Lot 52 consists of 106.25 feet of street frontage on Lee Avenue and 45.67 feet of frontage on Flushing Avenue for a total of approximately 2,771 ft². The Site is bordered by Lee Avenue to the east, a one-story commercial building (264 Lee Avenue) currently occupied by a small restaurant to the north, a new four-story apartment building (531 Flushing Avenue) to the west, and Flushing Avenue to the south. A map of the site boundary is shown on Figure 2.

Lot 52 is currently undeveloped and consists of an exposed soil cover, but is used to store refrigerated storage containers for the small restaurant located at 264 Lee Avenue.

Summary of Proposed Redevelopment Plan

The development project consists of redeveloping the lot with a 6-story mixed used building (commercial and residential) with a partial cellar level, and a small concrete capped rear yard. The cellar level will consist of a utility room, sprinkler room, electric meter room, gas meter room, and an elevator machine room. The first floor will consist of a 1,650 ft² commercial space, and a small residential lobby. The second floor will consist of office space, and the third through sixth floors will consist of residential apartments.

The cellar will require excavation across an area of approximately 1,900 ft² to a depth of approximately 10 feet below sidewalk grade, which will generate approximately 700 cubic yards (1,000 tons). Additional excavation of the top 2 to 3 feet would be required across the remainder of the Site for construction of the buildings slab-on grade foundation and concrete capped rear



yard. This would generate an additional 100 cubic yards (150 tons). The water table is approximately 13 feet below grade surface (bgs), and will therefore not be encountered during excavation.

Layout of the redevelopment plans for the cellar level as well as the proposed building's front elevation drawing are presented in Figure 3. The current zoning designation is R71. The proposed use is inconsistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

A Phase I Environmental Site Assessment Report (Phase I Report) was prepared by American Environmental Assessment & Solutions, Inc. (American) in December of 2008. At the time of the report, the Site was a vacant lot enclosed by a chain-linked fence, and utilized for parking. The Phase I Report did not identify any recognized environmental conditions, but did note that the Site was identified as having an E-designation for Hazmat, Noise and Air.

American noted the following Site history based on review of fire insurance maps.

Prior to 1887, the Site was developed with a 3-story apartment building with first floor commercial space (store), and a 1-story building noted as hay/feed/stable. J Reeber and Co. was noted as the building occupant. By 1904, a second 3-story building with a first floor store had replaced the 1-story building, but by 1918, another 1-story building had been constructed on the northern portion of the Site. This 1-story building was utilized for broom manufacturing in the 1950's, but the building was demolished by 1977. Sometime between 1950 and 1965, the two 3-story buildings were combined into one building with a single first floor store. All Sanborn maps after 1965 label the 2nd and 3rd floors of the building as vacant. The 3-story building was then demolished between 2006 and 2007, and the Site has been utilized for parking ever since.

No evidence of underground storage tanks were noted in historical records or during the site reconnaissance by AEAS.

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

1. The presence of historic fill material to depths as great as 10 feet.



Summary of the Work Performed under the Remedial Investigation

EBC performed the following scope of work at the Site:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed four soil borings across the Site in February 2009, and collected 8 soil for chemical analysis from the soil borings to evaluate soil quality;
3. Collected six metals delineation soil samples from three test pits in August of 2014;
4. Installed two groundwater monitoring wells at the Site in February of 2009 and collected 2 groundwater samples for chemical analysis to evaluate groundwater quality;
5. Installed two additional groundwater monitoring wells at the Site in April of 2014 and collected 2 additional groundwater samples for chemical analysis to evaluate groundwater quality; and
6. Installed three soil vapor implants in April of 2014 and collected three soil vapor samples for chemical analysis.

Summary of Environmental Findings

1. The elevation of the Site is approximately 12 feet.
2. Depth to groundwater is estimated to be approximately 13 feet below sidewalk grade.
3. Regional groundwater flow is generally west-northwest.
4. Depth to bedrock at the Site is greater than 100 feet.
5. The stratigraphy of the Site from the surface down consists of a layer of historic fill material that extends to depths as great as 10 feet below grade in some areas, underlain by native grey silty clay.
6. Soil/fill samples results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives and Restricted Residential Soil Cleanup Objectives as presented in 6NYCRR Part 375-6.8 and CP51. PCBs were not detected in any soil samples. No VOCs were detected within in any of the soil samples, with the exception of trace concentrations of tetrachlorethylene (49 µg/kg), which was detected in one shallow soil sample at a concentration below Unrestricted Use SCOs. Several SVOC compounds were detected at trace concentrations, all below their Unrestricted Use SCOs. Five pesticides, including 4,4'-DDD (24.3 µg/kg), 4,4'-DDE (maximum of 40.7 µg/kg), 4,4'- DDT (maximum of



579 µg/kg), chlordane (maximum of 176 µg/kg), and Dieldrin (maximum of 15.3 µg/kg), were detected above Unrestricted Use SCOs in all 4 shallow samples. Several metals including arsenic (maximum of 69.4 mg/kg), cadmium (maximum of 115 mg/kg), copper (maximum of 151 mg/kg), lead (maximum of 808 mg/kg), nickel (32.7 mg/kg) and zinc (maximum of 389 mg/kg) exceeded Unrestricted Use SCOs within shallow soil samples. Of these metals, arsenic, cadmium and lead also exceeded Restricted Residential Use SCOs. VOCs, SVOCs, pesticides and metals were not identified in deep soil samples. Overall, soil chemistry is unremarkable and is consistent with historic fill material in NYC.

7. Groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater samples collected during both the February 2009 subsurface investigation and the supplemental RI performed in August of 2014 showed no detectable concentrations of PCBs, pesticides, VOCs or SVOCs. Several metals were identified in groundwater but only iron, lead, magnesium, nickel, and sodium exceeded their respective GQSs in dissolved samples.
8. 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 samples collected during the 2014 EBC RI indicated petroleum related VOCs were present moderate concentrations and chlorinated VOCs were present at low concentrations. The total concentration of petroleum-related VOCs (BTEX) ranged from 312.4 µg/m³ to 2113.8 µg/m³. The chlorinated CVOC, trichloroethylene (TCE) was detected in all three of the soil gas samples at a maximum concentrations of 0.806 µg/m³ and tetrachloroethylene (PEC) was detected in all three soil gas samples at a maximum concentration of 3.39 µg/m³. Carbon tetrachloride was detected in all three soil gas samples at maximum concentration of 0.629 µg/m³. The CVOC 1,1,1-trichloroethane was not detected in any of the three soil gas samples. The concentrations of all chlorinated compounds were below the monitoring and mitigation level ranges established within the NYSDOH Final Guidance on Soil Vapor Intrusion.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Northstar Equities, LLC has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.06-acre Site located at 533-537 Flushing Avenue in the Williamsburg section of Brooklyn, New York. The Site will be redeveloped with a 3-story residential apartment building with first floor and cellar level commercial space. The portion of the RI work conducted on the Site was conducted in September of 2014. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 533-537 Flushing Avenue in the Williamsburg section of Brooklyn, New York, and is currently identified as Block 2263, Lot 52 on the New York City Tax Map. Figure 1 shows the Site location. Lot 52 is a triangular shaped lot located on the northwest corner of the intersection of Flushing Avenue and Lee Avenue. Lot 52 consists of 106.25 feet of street frontage on Lee Avenue and 45.67 feet of frontage on Flushing Avenue for a total of approximately 2,771 ft². The Site is bordered by Lee Avenue to the east, a one-story commercial building (264 Lee Avenue) currently occupied by a small restaurant to the north, a new four-story apartment building (531 Flushing Avenue) to the west, and Flushing Avenue to the south. A map of the site boundary is shown on Figure 2.

Lot 52 is currently undeveloped and consists of an exposed soil cover, but is used to store refrigerated storage containers for the small restaurant located at 264 Lee Avenue.

1.2 Proposed Redevelopment Plan

The development project consists of redeveloping the lot with a 6-story mixed used building (commercial and residential) with a partial cellar level, and a small concrete capped rear yard. The cellar level will consist of a utility room, sprinkler room, electric meter room, gas meter room, and an elevator machine room. The first floor will consist of a 1,650 ft² commercial space,

and a small residential lobby. The second floor will consist of office space, and the third through sixth floors will consist of residential apartments.

The cellar will require excavation across an area of approximately 1,900 ft² to a depth of approximately 10 feet below sidewalk grade, which will generate approximately 700 cubic yards (1,000 tons). Additional excavation of the top 2 to 3 feet would be required across the remainder of the Site for construction of the buildings slab-on grade foundation and concrete capped rear yard. This would generate an additional 100 cubic yards (150 tons). The water table is approximately 13 feet below grade surface (bgs), and will therefore not be encountered during excavation.

Layout of the redevelopment plans for the cellar level as well as the proposed building's front elevation drawing are presented in Figure 3. The current zoning designation is R71. The proposed use is inconsistent with existing zoning for the property.

1.3 Description of Surrounding Property

The area immediately surrounding Site consists of residential streets consisting of 4 to 6-story multi-family walk ups immediately to the east and west, many with first floor commercial space. There is also a transportation and storage facility immediately to the south and commercial space immediately north. Beyond both of these locations are more 4 to 6-story multi-family walk ups. To the northeast is Pesach Tikvah, a family and children's mental health services facility. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, schools or daycare facilities are located within a 250 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Adjacent Properties	<u>Block 2263, Lot 48</u> - 264 Lee Avenue A 4,925 ft ² lot developed with a one-story commercial building currently occupied by with two small restaurants.
South – Opposite side of Flushing Ave	<u>Block 1718 Lot 40</u> - 516 Flushing Avenue A 3,750 ft ² lot with warehouse and parking, used for transportation storage.
East – Adjacent Property	<u>Block 2263, Lot 55</u> - 531 Flushing Avenue A 2500 ft ² lot with a new 5-story residential building, with a first floor commercial space.



West – Adjacent Property	Block 2264, Lots 74 and 1 - 539 Flushing Avenue, 279 Lee Avenue A 2,790 ft ² lot that contains a 4-story residential building with a commercial space on the first floor. A 2025 ft ² lot with a 6-story residential building.
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2.0 SITE HISTORY

2.1 Past Uses and Ownership

A Phase I Environmental Site Assessment Report (Phase I Report) was prepared by American Environmental Assessment & Solutions, Inc. (American) in December of 2008. At the time of the report, the Site was a vacant lot enclosed by a chain-linked fence, and utilized for parking. The Phase I Report did not identify any recognized environmental conditions, but did note that the Site was identified as having an E-designation for Hazmat, Noise and Air.

American noted the following Site history based on review of fire insurance maps.

Prior to 1887, the Site was developed with a 3-story apartment building with first floor commercial space (store), and a 1-story building noted as hay/feed/stable. J Reeber and Co. was noted as the building occupant. By 1904, a second 3-story building with a first floor store had replaced the 1-story building, but by 1918, another 1-story building had been constructed on the northern portion of the Site. This 1-story building was utilized for broom manufacturing in the 1950's, but the building was demolished by 1977. Sometime between 1950 and 1965, the two 3-story buildings were combined into one building with a single first floor store. All Sanborn maps after 1965 label the 2nd and 3rd floors of the building as vacant. The 3-story building was then demolished between 2006 and 2007, and the Site has been utilized for parking ever since.

No evidence of underground storage tanks were noted in historical records or during the site reconnaissance by AEAS.

2.2 Previous Investigations

EBC conducted a subsurface investigation at the Site in 2009. A copy of the March 2009 Subsurface Investigation Report is included in Attachment F. The subsurface investigation included the installation of four soil borings to collect eight soil samples, and the collection of two groundwater samples. The findings of the subsurface investigation are summarized as a part of this Remedial Investigation.

2.3 Site Inspection

Mr. Dominick Mosca of EBC performed a site inspection on April 1, 2014, beginning at approximately 7:00 am. The reconnaissance included a visual inspection of the property, the sidewalk in front of the Site, and the exterior of adjacent buildings. The Site consisted of an exposed soil cover, and two refrigerated storage containers used to store food for the restaurant located on the adjacent property to the north. No evidence of an aboveground or underground storage tank was observed during the site inspection.

2.4 Areas of Concern

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

1. The presence of historic fill material to depths as great as 10 feet.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Kevin Brussee.

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

EBC performed the following scope of work at the Site in:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed four soil borings across the Site in February 2009, and collected 8 soil for chemical analysis from the soil borings to evaluate soil quality;
3. Collected six metals delineation soil samples from three test pits in August of 2014;
4. Installed two groundwater monitoring wells at the Site in February of 2009 and collected 2 groundwater samples for chemical analysis to evaluate groundwater quality;
5. Installed two additional groundwater monitoring wells at the Site in April of 2014 and collected 2 additional groundwater samples for chemical analysis to evaluate groundwater quality; and
6. Installed three soil vapor implants in April of 2014 and collected three soil vapor samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical investigation was not performed as a part of this assessment.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

On February 23, 2009, four soil borings (B1 through B4) were installed in the approximate locations shown on Figure 5. The four soil boring locations were chosen to gain representative soil quality information across the Site. For each of the four soil borings, soil samples were collected continuously from grade to a final depth of 16 or 18 feet below existing grade using a four-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photoionization detector (PID) and visually inspected for evidence of contamination. No PID readings above background concentrations were detected. From each soil boring, soil samples were retained for laboratory analysis from the intervals 0 to 2 feet below grade and 14 to 16 feet below grade.

Soil boring details are provided in Table 1. Boring logs were prepared by a Qualified Environmental Professional and are attached in Attachment B.

Due to elevated concentrations of the metals arsenic and cadmium reported within the shallow soil samples collected in February of 2009, EBC collected six delineation soil samples from test pits excavated on August 27, 2014. Three test pits were excavated to a depth of approximately 8 feet to collect soil samples from each test pit representing the intervals 2-4ft below grade and 4-6ft below grade. Historic fill was present within each test pit from grade to a depth of approximately 8 feet below grade.

Groundwater Monitoring Well Construction

On February 23, 2009, two groundwater samples were collected from soil boring locations B1 and B4 by installing a stainless-steel groundwater sampler, set to intersect the water table. The collection location of the two groundwater samples is shown on Figure 5.

On April 1, 2014, two temporary 1-inch diameter PVC monitoring wells were installed (MW1 and MW2) with 10 feet of 0.010 slot screen were installed by EBC at the approximate locations shown on Figure 5, set to intersect the water table. Since groundwater was encountered at approximately 13 feet below grade, monitoring wells were installed to a depth of 16 feet. Monitoring well sampling details are provided in Table 1. Monitoring well locations are shown in Figure 5.

Survey

Soil borings, monitoring wells and soil gas sampling locations were located to the nearest 0.10 foot with respect to two or more permanent site features.

Water Level Measurement

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

4.3 Sample Collection and Chemical Analysis

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

Soil Sampling

Eight soil samples were collected for chemical analysis during subsurface investigation performed in February of 2009, and six metals delineation soil samples were collected in August of 2014. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 2, 3, 4 and 5. Figure 5 shows the location of samples collected during this RI. Laboratories and analytical methods for soil samples collected during the RI are shown below.

The fourteen soil samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis with proper chain of custody to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). All soil samples collected in February of 2009 were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082, and target analyte list (TAL) metals. The six metals delineation soil samples were analyzed for the metals arsenic and cadmium.

Groundwater Sampling

A total of four groundwater samples were collected for chemical analysis. Two were collected during the subsurface investigation performed in February of 2009, and two additional

groundwater samples were collected as part of the supplemental RI in April of 2014. The two groundwater samples collected in February of 2009 were obtained from a stainless-steel groundwater sampler set to intersect the water table. Groundwater samples were collected from the groundwater sampler using dedicated polyethylene tubing and a peristaltic pump.

The two groundwater samples collected in April 2014 were collected from the monitoring wells utilizing dedicated polyethylene tubing and a peristaltic pump. All four groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and TAL metals. Groundwater sample collection data is reported in Tables 6 through 10. Sampling logs with information on purging and sampling of groundwater monitoring wells are included in Appendix C. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Three soil vapor probes (SG1, SG2, and SG3) were installed and three soil vapor samples were collected for chemical analysis during this RI. The three soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 11, and the soil vapor sampling logs are included in Attachment D. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*.

All three soil vapor probes were installed using Geoprobe™ equipment and tooling. The approximate location of each of the soil vapor probes is shown on Figure 5. The vapor probes that were installed were the Geoprobe™ Model AT86 series, which are constructed of a 6-inch length of double woven stainless steel wire. The three soil vapor probes installed on April 1, 2014, were installed to a depth of 8 feet below grade. Each probe was attached to ¼ inch polyethylene tubing which extended approximately 18 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the probe to a height of approximately 1 foot above the bottom of the probe. The remainder of the borehole was sealed with a bentonite slurry to the surface.

Soil vapor sampling for the three soil vapor probes was conducted on April 4, 2014. Prior to sampling, each sampling location was tested to ensure a proper surface seal had been obtained. In accordance with NYSDOH guidance (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005), a tracer gas (helium) was used as a quality assurance/quality control device to verify the integrity of the sampling point seal prior to collecting the samples. Prior to testing and collecting samples, the surface immediately surrounding the polyethylene tubing of the vapor implant was sealed using a 1 foot ft by 1 ft square sheet of 2 mil HDPE plastic firmly adhered to a wetted layer of granular bentonite. The seal was then tested by enriching the air space above the seal with a tracer gas (helium) while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-Gas Detector) for a minimum of 15 minutes. The tracer gas test procedure was employed at all three soil vapor sampling locations. No surface seal leaks were observed at any of the locations.

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

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

Chemical Analysis

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

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Phoenix Environmental Laboratories
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories
Chemical Analytical Methods	Soil and groundwater analytical methods: <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: <ul style="list-style-type: none"> • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 11. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Attachment E.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The stratigraphy of the Site from the surface down consists of a layer of historic fill material that extends to depths as great as 10 feet below grade in some areas, underlain by native grey silty clay.

Hydrogeology

A table of water level data for monitoring wells MW1 and MW2 is included in Table 1. The average depth to groundwater is 13 feet. Regional groundwater flow is generally to the west-northwest.

5.2 Soil Chemistry

Data collected during the subsurface investigation performed in 2009, and the supplemental soil sampling performed in 2014 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 collected during the both the February 2009 subsurface investigation and supplemental RI performed in August 2014 is included in Tables 2 through 5. Figure 6 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Unrestricted Use and Restricted Residential Use Soil Cleanup Objectives.

Soil/fill samples showed no detectable concentrations of PCBs in any soil samples. No VOCs were detected within in any of the soil samples, with the exception of trace concentrations of tetrachlorethylene (49 µg/kg), which was detected in one shallow soil sample at a concentration below Unrestricted Use SCOs. Several SVOC compounds were detected at trace concentrations, all below their Unrestricted Use SCOs. Five pesticides, including 4,4'-DDD (24.3 µg/kg), 4,4'-DDE (maximum of 40.7 µg/kg), 4,4'- DDT (maximum of 579 µg/kg), chlordane (maximum of 176 µg/kg), and Dieldrin (maximum of 15.3 µg/kg), were detected above Unrestricted Use SCOs in all 4 shallow samples. Several metals including arsenic (maximum of 69.4 mg/kg), cadmium (maximum of 115 mg/kg), copper (maximum of 151 mg/kg), lead (maximum of 808 mg/kg), nickel (32.7 mg/kg) and zinc (maximum of 389 mg/kg) exceeded Unrestricted Use SCOs within shallow soil samples. Of these metals, arsenic, cadmium and lead also exceeded Restricted

Residential Use SCOs. VOCs, SVOCs, pesticides and metals were not identified in deep soil samples. Overall, soil chemistry is unremarkable and is consistent with historic fill material in NYC.

5.3 Groundwater Chemistry

Data collected during the subsurface investigation performed in February of 2009, and the supplemental RI performed in August of 2014 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 collected during both the February 2009 subsurface investigation and the supplemental RI performed in August of 2014 is included in Tables 6 through 9. Figure 7 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS) for the 2014 EBC RI. A copy of the laboratory report for the 2014 RI groundwater samples is provided in Attachment D.

Groundwater samples collected during both the February 2009 subsurface investigation and the supplemental RI performed in August of 2014 showed no detectable concentrations of PCBs, pesticides, VOCs or SVOCs. Several metals were identified in groundwater but only iron, lead, magnesium, nickel, and sodium exceeded their respective GQSs in dissolved samples..

5.4 Soil Vapor Chemistry

Data collected during the August 2014 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 10. 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. Figure 8 shows the location and posts the values for soil vapor samples with detected concentrations.

Soil vapor samples collected during the 2014 EBC RI indicated petroleum related VOCs were present moderate concentrations and chlorinated VOCs were present at low concentrations. The total concentration of petroleum-related VOCs (BTEX) ranged from 312.4 $\mu\text{g}/\text{m}^3$ to 2113.8

$\mu\text{g}/\text{m}^3$. The chlorinated CVOC, trichloroethylene (TCE) was detected in all three of the soil gas samples at a maximum concentrations of $0.806 \mu\text{g}/\text{m}^3$ and tetrachloroethylene (PEC) was detected in all three soil gas samples at a maximum concentration of $3.39 \mu\text{g}/\text{m}^3$. Carbon tetrachloride was detected in all three soil gas samples at maximum concentration of $0.629 \mu\text{g}/\text{m}^3$. The CVOC 1,1,1-trichloroethane was not detected in any of the three soil gas samples. The concentrations of all chlorinated compounds were below the monitoring and mitigation level ranges established within the NYSDOH Final Guidance on Soil Vapor Intrusion.

5.4 Prior Activity

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

5.5 Impediments to Remedial Action

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

TABLES

Table 1
533-535 Flushing Avenue
Brooklyn, NY
Soil Boring / Well Information

SAMPLE ID	Date	Total Depth (ft)	Diameter (in)	Construction Materials	Screen Length (ft)	DTW (ft)
B1	2/23/2009	16	2	Geoprobe	-	-
B2	2/23/2009	16	2	Geoprobe	-	-
B3	2/23/2009	16	2	Geoprobe	-	-
B4	2/23/2009	18	2	Geoprobe	-	-
MW1	4/1/2014	16	1	PVC	10.00	13
MW2	4/1/2014	16	1	PVC	10.00	13

TABLE 2
535 Flushing Avenue,
Brooklyn, New York
Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1		B2		B3		B4	
			(0-2') µg/Kg	(11-13') µg/Kg	(0-2') µg/Kg	(11-13') µg/Kg	(0-2') µg/Kg	(11-13') µg/Kg	(0-2') µg/Kg	(11-13') µg/Kg
			Result	Result	Result	Result	Result	Result	Result	Result
1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	680	100,000	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	270	26,000	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane			ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	52,000	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1,100	100,000	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	20	3,100	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethylene			ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	52,000	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2,400	4,900	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1,800	13,000	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene			ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene			ND	ND	ND	ND	ND	ND	ND	ND
Benzene	60	4,800	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene			ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	760	2,400	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	49,000	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane			ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,000	41,000	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene			ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene			ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	100,000	ND	ND	ND	ND	ND	ND	ND	ND
MTBE			ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	100,000	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	260	100,000	ND	ND	ND	ND	ND	ND	ND	ND
p-&m-Xylenes			ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene			ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Styrene			ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	19,000	ND	ND	ND	ND	ND	ND	49	ND
Toluene	700	100,000	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	21,000	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	20	900	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 3
535 Flushing Avenue,
Brooklyn, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1		B2		B3		B4	
			(0-2') µg/Kg Result	(11-13') µg/Kg Result	(0-2') µg/Kg Result	(11-13') µg/Kg Result	(0-2') µg/Kg Result	(11-13') µg/Kg Result	(0-2') µg/Kg Result	(11-13') µg/Kg Result
			1,2,4-Trichlorobenzene			ND	ND	ND	ND	ND
1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol			ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol			ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol			ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol			ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol			ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene			ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene			ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene			ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol			ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene			ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol (o-cresol)	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline			ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol			ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine			ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol			ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline			ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol			ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether			ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol			ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline			ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether			ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol			ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline			ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol			ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Aniline			ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100,000	100,000	180	ND	180	ND	ND	ND	ND	ND
Benzidine			ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1,000	1,000	370	ND	330	ND	430	ND	240	ND
Benzo(a)pyrene	1,000	1,000	350	ND	420	ND	520	ND	180	ND
Benzo(b)fluoranthene	1,000	1,000	280	ND	380	ND	460	ND	ND	ND
Benzo(ghi)perylene	100,000	100,000	ND	ND	ND	ND	200	ND	ND	ND
Benzo(k)fluoranthene	800	3,900	290	ND	350	ND	440	ND	200	ND
Benzyl alcohol			ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane			ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether			ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether			ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate			190	ND	210	ND	440	ND	ND	ND
Butyl Benzyl phthalate			ND	ND	ND	ND	670	ND	ND	ND
Chrysene	1,000	3,900	390	ND	440	ND	490	ND	210	ND
Dibenz(a,h)anthracene	330	330	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	7,000	59,000	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate			ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate			ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate			ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate			ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100,000	100,000	890	ND	830	ND	860	ND	490	ND
Fluorene	30,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene			ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene			ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane			ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	500	500	ND	ND	ND	ND	220	ND	ND	ND
Isophorone			ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene			ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine			ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine			ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	800	6,700	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100,000	100,000	960	ND	800	ND	650	ND	540	ND
Phenol	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100,000	100,000	750	ND	690	ND	710	ND	420	ND
Pyridine			ND	ND	ND	ND	ND	ND	ND	ND

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 4
535 Flushing Avenue,
Brooklyn, New York
Soil Analytical Results
Pesticides PCBs

	COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1		B2		B3		B4	
				(0-2') µg/Kg	(11-13') µg/Kg	(0-2') µg/Kg	(11-13') µg/Kg	(0-2') µg/Kg	(11-13') µg/Kg	(0-2') µg/Kg	(11-13') µg/Kg
				Result	Result	Result	Result	Result	Result	Result	Result
Pesticides	4,4' -DDD	3.3	13,000	ND	ND	ND	ND	ND	ND	24.3	ND
	4,4' -DDE	3.3	8,900	ND	ND	ND	ND	21.2	ND	40.7	ND
	4,4' -DDT	3.3	7,900	ND	ND	47.9	ND	183	ND	579	ND
	Aldrin	5	97	ND	ND	ND	ND	ND	ND	ND	ND
	a-BHC	20	480	ND	ND	ND	ND	ND	ND	ND	ND
	b-BHC	36	360	ND	ND	ND	ND	ND	ND	ND	ND
	Chlordane	94	4,200	26.3	ND	176	ND	92.4	ND	45.6	ND
	d-BHC	40	100,000	ND	ND	ND	ND	ND	ND	ND	ND
	Dieldrin	5	200	4.3	ND	6.66	ND	15.3	ND	3.62	ND
	Endosulfan I	2,400	24,000	ND	ND	ND	ND	ND	ND	ND	ND
	Endosulfan II	2,400	24,000	ND	ND	ND	ND	ND	ND	ND	ND
	Endosulfan sulfate	2,400	24,000	ND	ND	ND	ND	ND	ND	ND	ND
	Endrin	14	11,000	ND	ND	ND	ND	ND	ND	ND	ND
	Endrin aldehyde			ND	ND	ND	ND	ND	ND	ND	ND
	g-BHC			ND	ND	ND	ND	ND	ND	ND	ND
	Heptachlor	42	2,100	ND	ND	ND	ND	ND	ND	ND	ND
	Heptachlor epoxide			ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor			ND	ND	ND	ND	ND	ND	ND	ND	
Toxaphene			ND	ND	ND	ND	ND	ND	ND	ND	
PCBs	PCB-1016	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND
	PCB-1221	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND
	PCB-1232	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND
	PCB-1242	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND
	PCB-1248	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND
	PCB-1254	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND
	PCB-1260	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 5
535 Flushing Avenue,
Brooklyn, New York
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1		B2		B3		B4		B2		B3		B4	
			(0-2') mg/Kg	(11-13') mg/Kg	(0-2') mg/Kg	(11-13') mg/Kg	(0-2') mg/Kg	(11-13') mg/Kg	(0-2') mg/Kg	(11-13') mg/Kg	(2-4') mg/Kg	(4-6') mg/Kg	(2-4') mg/Kg	(4-6') mg/Kg	(2-4') mg/Kg	(4-6') mg/Kg
			Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Aluminum			4,710	2,250	5,390	12,600	4,690	5,490	4,920	9,110	-	-	-	-	-	-
Antimony			3.77	ND	1.98	ND	ND	ND	ND	ND	-	-	-	-	-	-
Arsenic	13	16	5.65	ND	41	ND	42.1	ND	29.5	ND	32.4	37.6	69.4	55	40.2	36.5
Barium	350	350	98.4	10.9	375	77.7	253	28.8	256	68.4	-	-	-	-	-	-
Beryllium	7.2	14	ND	ND	ND	0.67	ND	ND	ND	ND	-	-	-	-	-	-
Cadmium	2.5	2.5	115	ND	57.2	1.14	2.08	ND	8.72	ND	8.57	18.2	0.402	0.831	0.379	1.83
Calcium			20,500	500	39,100	1,060	42,000	771	35,800	1,620	-	-	-	-	-	-
Chromium	30	180	10.8	4.64	14.6	38.4	11.3	12.7	11.6	25.4	-	-	-	-	-	-
Cobalt			3.52	1.24	4.08	13.3	3.53	5.33	3.37	7.24	-	-	-	-	-	-
Copper	50	270	151	2.93	97.7	43.4	27.7	8.17	32	15.4	-	-	-	-	-	-
Iron			10,900	2,310	9,600	18,100	8,530	7,470	8,810	21,100	-	-	-	-	-	-
Lead	63	400	232	1.79	297	10.7	808	4.23	227	7.58	-	-	-	-	-	-
Magnesium			4,320	750	3,440	5,120	2,200	1,950	2,540	4,210	-	-	-	-	-	-
Manganese	1,600	2,000	172	25.9	230	151	179	52	171	217	-	-	-	-	-	-
Mercury	0.18	0.81	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
Nickel	30	140	32.7	5.07	22.3	26.4	10	11.2	12.3	20.6	-	-	-	-	-	-
Potassium			642	235	956	2,340	861	741	1,030	2,080	-	-	-	-	-	-
Selenium	3.9	36	ND	ND	1.8	1.09	1.16	ND	1.16	ND	-	-	-	-	-	-
Silver	2	36	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
Sodium			159	42.3	362	132	354	70.8	392	172	-	-	-	-	-	-
Thallium			ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
Vanadium			14.8	3.09	19	37.2	13.9	16.9	15.4	30.7	-	-	-	-	-	-
Zinc	109	2,200	389	10.8	320	72.9	168	26.3	280	47.5	-	-	-	-	-	-

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Table 6
535 Flushing Ave
Brooklyn, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1	MW2	MW1		MW2		Duplicate		Trip Blank	
		µg/L	µg/L	µg/L		µg/L		µg/L		µg/L	
		Results	Results	Results	RL	Results	RL	Results	RL	Results	RL
1,1,1,2-Tetrachloroethane	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,1,1-Trichloroethane	5	ND	ND	<5.0	5	<10	10	<5.0	5	<5.0	5
1,1,2,2-Tetrachloroethane	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,1,2-Trichloroethane	1	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,1-Dichloroethane	5	ND	ND	<5.0	5	<10	10	<5.0	5	<5.0	5
1,1-Dichloroethene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,1-Dichloropropene		ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,2,3-Trichlorobenzene		ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,2,3-Trichloropropane	0.04	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,2,4-Trichlorobenzene		-	-	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,2,4-Trimethylbenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,2-Dibromo-3-chloropropane	0.04	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,2-Dibromoethane		ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,2-Dichlorobenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,2-Dichloroethane	0.6	ND	ND	<2.0	2	<4.0	4	<2.0	2	<2.0	2
1,2-Dichloroethylene (total)		ND	ND	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.94	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,3,5-Trimethylbenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,3-Dichlorobenzene		ND	ND	<5.0	5	<10	10	<5.0	5	<5.0	5
1,3-Dichloropropane	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
1,4-Dichlorobenzene	5	ND	ND	<5.0	5	<10	10	<5.0	5	<5.0	5
2,2-Dichloropropane	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
2-Chlorotoluene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
4-Chlorotoluene		ND	ND	-	-	-	-	-	-	-	-
2-Hexanone		-	-	<1.0	1	<2.0	2	<1.0	1	<1.0	1
2-Isopropyltoluene		-	-	<1.0	1	<2.0	2	<1.0	1	<1.0	1
4-Chlorotoluene		-	-	<1.0	1	<2.0	2	<1.0	1	<1.0	1
4-Methyl-2-pentanone		-	-	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Acetone		-	-	<5.0	5	17	10	<5.0	5	<5.0	5
Acrolein		-	-	<5.0	5	<10	10	<5.0	5	<5.0	5
Acrylonitrile		-	-	<5.0	5	<10	10	<5.0	5	<5.0	5
Benzene	1	ND	ND	<0.70	0.7	<1.4	1.4	<0.70	0.7	<0.70	0.7
Bromobenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Bromochloromethane	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Bromodichloromethane		ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Bromoform		ND	ND	<5.0	5	<10	10	<5.0	5	<5.0	5
Bromomethane	5	ND	ND	<5.0	5	<10	10	<5.0	5	<5.0	5
Carbon Disulfide		-	-	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Carbon tetrachloride	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Chlorobenzene	5	ND	ND	<5.0	5	<10	10	<5.0	5	<5.0	5
Chloroethane	5	ND	ND	<5.0	5	<10	10	<5.0	5	<5.0	5
Chloroform	7	ND	ND	<5.0	5	<10	10	<5.0	5	<5.0	5
Chloromethane		-	-	<5.0	5	<10	10	<5.0	5	<5.0	5
cis-1,2-Dichloroethene		ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
cis-1,3-Dichloropropene		-	-	<0.40	0.4	<0.80	0.8	<0.40	0.4	<0.40	0.4
Dibromochloromethane		ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Dibromomethane	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Dichlorodifluoromethane	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Ethylbenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Hexachlorobutadiene	0.5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Isopropylbenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
m&p-Xylene		ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Methyl ethyl ketone		-	-	<1.0	1	4.6	2	<1.0	1	<1.0	1
Methyl t-butyl ether (MTBE)	10	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Methylene chloride	5	ND	ND	<3.0	3	<6.0	6	<3.0	3	<3.0	3
Naphthalene	10	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
n-Butylbenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
n-Propylbenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
o-Xylene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
p-Isopropyltoluene		-	-	<1.0	1	<2.0	2	<1.0	1	<1.0	1
sec-Butylbenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Styrene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
tert-Butylbenzene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Tetrachloroethene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Tetrahydrofuran (THF)		-	-	<5.0	5	<10	10	<5.0	5	<5.0	5
Toluene	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
trans-1,2-Dichloroethene		-	-	<5.0	5	<10	10	<5.0	5	<5.0	5
trans-1,3-Dichloropropene	0.4	ND	ND	<0.40	0.4	<0.80	0.8	<0.40	0.4	<0.40	0.4
trans-1,4-dichloro-2-butene		-	-	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Trichloroethene	5	ND	ND	1.2	1	<2.0	2	1.1	1	<1.0	1
Trichlorofluoromethane	5	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Trichlorotrifluoroethane		-	-	<1.0	1	<2.0	2	<1.0	1	<1.0	1
Vinyl Chloride	2	ND	ND	<1.0	1	<2.0	2	<1.0	1	<1.0	1

Notes:

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 7
535 Flushing Avenue
Brooklyn, New York
Groundwater Analytical Results
Semi-Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1	MW2	MW1		MW2	
		4/23/2009	4/23/2009	4/3/2014		4/3/2014	
		µg/L	µg/L	µg/L	RL	µg/L	RL
		Results	Results	Results	RL	Results	RL
1,2,4-Trichlorobenzene		ND	ND	< 5.0	5	< 5.0	5
1,2-Dichlorobenzene		ND	ND	< 1.0	1	< 1.0	1
1,2-Diphenylhydrazine		-	-	< 5.0	5	< 5.0	5
1,3-Dichlorobenzene	3	ND	ND	< 1.0	1	< 1.0	1
1,4-Dichlorobenzene		ND	ND	< 1.0	1	< 1.0	1
2,4,5-Trichlorophenol	1	ND	ND	< 1.0	1	< 1.0	1
2,4,6-Trichlorophenol	1	ND	ND	< 1.0	1	< 1.0	1
2,4-Dichlorophenol		ND	ND	< 1.0	1	< 1.0	1
2,4-Dimethylphenol		ND	ND	< 1.0	1	< 1.0	1
2,4-Dinitrophenol	5	ND	ND	< 1.0	1	< 1.0	1
2,4-Dinitrotoluene	5	ND	ND	< 5.0	5	< 5.0	5
2,6-Dinitrotoluene	5	ND	ND	< 5.0	5	< 5.0	5
2-Chloronaphthalene	10	ND	ND	< 5.0	5	< 5.0	5
2-Chlorophenol	1	ND	ND	< 1.0	1	< 1.0	1
2-Methylnaphthalene		ND	ND	< 5.0	5	< 5.0	5
2-Methylphenol (o-cresol)	1	ND	ND	< 1.0	1	< 1.0	1
2-Nitroaniline	5	ND	ND	< 5.0	5	< 5.0	5
2-Nitrophenol	1	ND	ND	< 1.0	1	< 1.0	1
3,3'-Dichlorobenzidine	5	ND	ND	< 5.0	5	< 5.0	5
3-Methylphenol		ND	ND	-	-	-	-
3&4 Methylphenol (m&p-cresol)		-	-	< 1.0	1	< 1.0	1
3-Nitroaniline	5	ND	ND	< 5.0	5	< 5.0	5
4,6-Dinitro-2-methylphenol	1	ND	ND	< 1.0	1	< 1.0	1
4-Bromophenyl phenyl ether		ND	ND	< 5.0	5	< 5.0	5
4-Chloro-3-methylphenol	1	ND	ND	< 1.0	1	< 1.0	1
4-Chloroaniline	5	ND	ND	< 3.5	3.5	< 3.5	3.5
4-Chlorophenyl phenyl ether		ND	ND	< 5.0	5	< 5.0	5
4-Methylphenol	5	ND	ND	-	-	-	-
4-Nitroaniline		ND	ND	< 5.0	5	< 5.0	5
4-Nitrophenol		ND	ND	< 1.0	1	< 1.0	1
Acenaphthene	20	ND	ND	< 5.0	5	< 5.0	5
Acenaphthylene		ND	ND	-	-	-	-
Acetophenone		-	-	< 5.0	5	< 5.0	5
Aniline	5	ND	ND	< 3.5	3.5	< 3.5	3.5
Anthracene	50	ND	ND	< 5.0	5	< 5.0	5
Benzidine	5	ND	ND	< 10	10	< 10	10
Benzoic acid		-	-	< 25	25	< 25	25
Benz(a)anthracene	0.002	ND	ND	-	-	-	-
Benz(a)pyrene		ND	ND	0.59	0.02	0.26	0.02
Benz(b)fluoranthene	0.002	ND	ND	0.83	0.02	0.48	0.02
Benz(g,h,i)perylene		ND	ND	0.84	0.02	0.33	0.02
Benz(k)fluoranthene	0.002	ND	ND	0.34	0.02	0.16	0.02
Benzyl alcohol		ND	ND	-	-	-	-
Benzyl butyl phthalate		-	-	< 5.0	5	< 5.0	5
Bis(2-chloroethoxy)methane		-	-	< 5.0	5	< 5.0	5
Bis(2-chloroethyl)ether	1	ND	ND	< 1.0	1	< 1.0	1
Bis(2-chloroisopropyl)ether		ND	ND	< 5.0	5	< 5.0	5
Bis(2-ethylhexyl)phthalate	5	ND	ND	< 1.6	1.6	< 1.6	1.6
Butylbenzylphthalate		ND	ND	-	-	-	-
Carbazole		-	-	< 25	25	< 25	25
Chrysene	0.002	ND	ND	0.51	0.02	0.3	0.02
Dibenzo(a,h)anthracene		ND	ND	< 0.02	0.02	< 0.02	0.02
Dibenzofuran		ND	ND	< 5.0	5	< 5.0	5
Diethyl phthalate	50	ND	ND	< 5.0	5	< 5.0	5
Dimethylphthalate	50	ND	ND	< 5.0	5	< 5.0	5
Di-n-butylphthalate	50	ND	ND	< 5.0	5	< 5.0	5
Di-n-octylphthalate	50	ND	ND	< 5.0	5	< 5.0	5
Fluoranthene	50	ND	ND	< 5.0	5	< 5.0	5
Fluorene	50	ND	ND	< 5.0	5	< 5.0	5
Hexachlorobenzene	0.04	ND	ND	< 0.02	0.02	< 0.02	0.02
Hexachlorobutadiene	0.5	ND	ND	< 1.0	1	< 1.0	1
Hexachlorocyclopentadiene	5	ND	ND	< 5.0	5	< 5.0	5
Hexachloroethane	5	ND	ND	< 2.4	2.4	< 2.4	2.4
Indeno(1,2,3-cd)pyrene	0.002	ND	ND	0.63	0.02	0.26	0.02
Isophorone	50	ND	ND	< 5.0	5	< 5.0	5
Naphthalene	10	ND	ND	< 5.0	5	< 5.0	5
Nitrobenzene	0.4	ND	ND	< 1.0	1	< 1.0	1
N-Nitrosodi-n-propylamine		ND	ND	< 1.0	1	< 1.0	1
N-Nitrosodiphenylamine	50	ND	ND	< 5.0	5	< 5.0	5
N-Nitrosodiphenylamine		-	-	< 5.0	5	< 5.0	5
Pentachloronitrobenzene		-	-	< 0.10	0.1	< 0.10	0.1
Pentachlorophenol		-	-	< 0.80	0.8	< 0.80	0.8
Phenanthrene	50	ND	ND	0.26	0.1	0.24	0.1
Phenol	50	ND	ND	< 1.0	1	< 1.0	1
Pyrene	50	ND	ND	< 5.0	5	< 5.0	5
Pyridine	50	ND	ND	< 10	10	< 10	10

Notes:

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 8
535 Flushing Avenue
Brooklyn, New York
Groundwater Analytical Results
Pesticides/PCBs

Compound	NYSDEC Groundwater Quality Standards µg/L	B1	B4	MW1		MW2	
		4/23/2009	4/23/2009	4/3/2014		4/3/2014	
		µg/L	µg/L	µg/L	RL	µg/L	RL
		Results	Results	Results	RL	Results	RL
PCB-1016	0.09	ND	ND	< 0.072	0.072	< 0.072	0.072
PCB-1221	0.09	ND	ND	< 0.072	0.072	< 0.072	0.072
PCB-1232	0.09	ND	ND	< 0.072	0.072	< 0.072	0.072
PCB-1242	0.09	ND	ND	< 0.072	0.072	< 0.072	0.072
PCB-1248	0.09	ND	ND	< 0.072	0.072	< 0.072	0.072
PCB-1254	0.09	ND	ND	< 0.072	0.072	< 0.072	0.072
PCB-1260	0.09	ND	ND	< 0.072	0.072	< 0.072	0.072
PCB-1262		-	-	< 0.072	0.072	< 0.072	0.072
PCB-1268		-	-	< 0.072	0.072	< 0.072	0.072
4,4-DDD	0.3	ND	ND	< 0.010	0.01	< 0.010	0.01
4,4-DDE	0.2	ND	ND	0.017	0.01	< 0.010	0.01
4,4-DDT	0.11	ND	ND	0.17	0.01	< 0.010	0.01
a-BHC	0.94	ND	ND	< 0.005	0.005	< 0.005	0.005
a-chlordane		-	-	0.014	0.01	< 0.010	0.01
Alachlor		-	-	< 0.075	0.075	< 0.075	0.075
Aldrin		ND	ND	< 0.002	0.002	< 0.002	0.002
b-BHC	0.04	ND	ND	< 0.005	0.005	< 0.005	0.005
Chlordane	0.05	ND	ND	0.084	0.05	< 0.050	0.05
d-BHC	0.04	ND	ND	< 0.005	0.005	< 0.005	0.005
Dieldrin	0.004	ND	ND	< 0.018	0.018	< 0.002	0.002
Endosulfan I		ND	ND	< 0.010	0.01	< 0.010	0.01
Endosulfan II		ND	ND	< 0.010	0.01	< 0.010	0.01
Endosulfan Sulfate		ND	ND	< 0.010	0.01	< 0.010	0.01
Endrin		ND	ND	< 0.010	0.01	< 0.010	0.01
Endrin aldehyde	5	ND	ND	< 0.010	0.01	< 0.010	0.01
Endrin ketone		-	-	< 0.010	0.01	< 0.010	0.01
gamma-BHC	0.05	ND	ND	< 0.005	0.005	< 0.005	0.005
g-chlordane		-	-	0.012	0.01	< 0.010	0.01
Heptachlor	0.04	ND	ND	< 0.010	0.01	< 0.010	0.01
Heptachlor epoxide	0.03	ND	ND	< 0.010	0.01	< 0.010	0.01
Methoxychlor	35	ND	ND	< 0.10	0.1	< 0.10	0.1
Toxaphene		ND	ND	< 0.20	0.2	< 0.20	0.2

Notes:

RL- Reporting limit

ND - Non-detect

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 9
535 Flushing Avenue
Brooklyn, New York
Groundwater Analytical Results
TAL Filtered Metals

Compound	NYSDEC Groundwater Quality Standards mg/L	B1	B4	MW1		MW2	
		4/23/2009	4/23/2009	4/3/2014		4/3/2014	
		mg/L	mg/L	mg/L		mg/L	
		Results	Results	Results	RL	Results	RL
Aluminum	NS	0.011	0.0097	0.16	0.01	0.95	0.01
Antimony	0.003	ND	ND	< 0.003	0.003	< 0.003	0.003
Arsenic	0.025	ND	ND	0.005	0.003	0.006	0.003
Barium	1	0.0469	0.104	0.053	0.011	0.071	0.011
Beryllium	0.003	ND	ND	< 0.001	0.001	< 0.001	0.001
Cadmium	0.005	ND	ND	< 0.004	0.004	< 0.004	0.004
Calcium	NS	149	562	495	0	555	0
Chromium	0.05	0.00825	0.00951	0.001	0.001	0.005	0.001
Cobalt	NS	ND	0.00519	< 0.005	0.005	< 0.005	0.005
Copper	0.2	ND	ND	0.029	0.005	0.015	0.005
Iron	0.5	ND	0.0131	0.03	0.01	0.53	0.01
Lead	0.025	ND	0.00602	0.038	0.002	0.026	0.002
Magnesium	35	11.9	0.0633	67.3	0.01	32.5	0.01
Manganese	0.3	0.296	2	< 0.005	0.005	0.086	0.005
Mercury	0.0007	ND	ND	< 0.0002	0.0002	< 0.0002	0.0002
Nickel	0.1	0.0767	0.268	0.008	0.004	0.004	0.004
Potassium	NS	12	23.9	26.3	0.1	30.9	0.1
Selenium	0.01	ND	ND	< 0.004	0.004	< 0.004	0.004
Silver	0.05	ND	ND	< 0.005	0.005	< 0.005	0.005
Sodium	2	11.2	126	38	1	45	1
Thallium	0.0005	ND	ND	< 0.0005	0.0005	< 0.0005	0.0005
Vanadium	NS	ND	ND	< 0.01	0.01	< 0.01	0.01
Zinc	2	ND	ND	0.26	0.011	0.016	0.011

Notes:

RL- Reporting limit

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 10
535 Flushing Avenue
Brooklyn, New York
Groundwater Analytical Results
TAL Total Metals

Compound	NYSDEC Groundwater Quality Standards mg/L	B1	MW2	MW1		MW2	
		4/23/2009	4/23/2009	4/3/2014		4/3/2014	
		mg/L	mg/L	mg/L		mg/L	
		Results	Results	Results	RL	Results	RL
Aluminum	NS	21.6	46.7	0.447	0.01	12.8	0.01
Antimony	0.003	ND	0.00546	< 0.003	0.003	< 0.003	0.003
Arsenic	0.025	0.0255	0.452	< 0.004	0.004	0.016	0.004
Barium	1	1.17	0.46	0.089	0.01	0.424	0.01
Beryllium	0.003	0.00911	0.0101	< 0.001	0.001	< 0.001	0.001
Cadmium	0.005	0.0331	0.0502	< 0.004	0.004	< 0.004	0.004
Calcium	NS	303	1590	490	0.1	570	0.1
Chromium	0.05	0.231	0.219	0.001	0.001	0.04	0.001
Cobalt	NS	0.0393	0.0851	< 0.005	0.005	0.006	0.005
Copper	0.2	0.321	0.499	0.029	0.005	0.048	0.005
Iron	0.5	68.9	58.8	0.41	0.01	12.3	0.01
Lead	0.025	0.39	6.62	0.141	0.002	0.723	0.002
Magnesium	35	31.6	190	65.5	0.01	35.1	0.01
Manganese	0.3	2.49	9.58	0.015	0.005	0.245	0.005
Mercury	0.0007	0.000002	0.0000316	< 0.0002	0.0002	< 0.0002	0.0002
Nickel	0.1	0.166	0.195	0.008	0.004	0.022	0.004
Potassium	NS	23.3	38.9	23.9	0.1	29.8	0.1
Selenium	0.01	ND	0.0188	< 0.004	0.004	< 0.004	0.004
Silver	0.05	ND	ND	< 0.005	0.005	< 0.005	0.005
Sodium	2	11.6	128	36.8	1	46.9	1
Thallium	0.0005	ND	ND	< 0.0005	0.0005	< 0.0005	0.0005
Vanadium	NS	0.182	0.377	< 0.010	0.01	0.032	0.01
Zinc	2	1.33	3.45	0.268	0.01	0.311	0.01

Notes:

RL- Reporting limit

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 11
535 Flushing Avenue
Brooklyn, New York
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub-Slab Value ($\mu\text{g}/\text{m}^3$) ^(a)	NYSDOH Soil Outdoor Background Levels ($\mu\text{g}/\text{m}^3$) ^(b)	SG-1 ($\mu\text{g}/\text{m}^3$)		SG-2 ($\mu\text{g}/\text{m}^3$)		SG-3 ($\mu\text{g}/\text{m}^3$)	
			Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			<1.00	1	<1.00	1	<1.00	1
1,1,1-Trichloroethane	100	<2.0 - 2.8	<1.00	1	<1.00	1	<1.00	1
1,1,2,2-Tetrachloroethane		<1.5	<1.00	1	<1.00	1	<1.00	1
1,1,2-Trichloroethane		<1.0	<1.00	1	<1.00	1	<1.00	1
1,1-Dichloroethane		<1.0	<1.00	1	<1.00	1	<1.00	1
1,1-Dichloroethene		<1.0	<1.00	1	<1.00	1	<1.00	1
1,2,4-Trichlorobenzene		NA	<1.00	1	<1.00	1	<1.00	1
1,2,4-Trimethylbenzene		<1.0	82	1	5.31	1	9.63	1
1,2-Dibromoethane		<1.5	<1.00	1	<1.00	1	<1.00	1
1,2-Dichlorobenzene		<2.0	<1.00	1	<1.00	1	<1.00	1
1,2-Dichloroethane		<1.0	1.29	1	<1.00	1	<1.00	1
1,2-Dichloropropane			<1.00	1	<1.00	1	<1.00	1
1,2-Dichlorotetrafluoroethane			<1.00	1	<1.00	1	<1.00	1
1,3,5-Trimethylbenzene		<1.0	44.5	1	1.82	1	5.9	1
1,3-Butadiene		NA	<1.00	1	<1.00	1	<1.00	1
1,3-Dichlorobenzene		<2.0	<1.00	1	<1.00	1	<1.00	1
1,4-Dichlorobenzene		NA	172	1	298	1	363	1
1,4-Dioxane			<1.00	1	<1.00	1	<1.00	1
2-Hexanone			<1.00	1	<1.00	1	<1.00	1
4-Ethyltoluene		NA	36.9	1	2.31	1	4.57	1
4-Isopropyltoluene			3.56	1	<1.00	1	<1.00	1
4-Methyl-2-pentanone			<1.00	1	<1.00	1	<1.00	1
Acetone		NA	945	1	995	1	1,380	1
Acrylonitrile			<1.00	1	<1.00	1	<1.00	1
Benzene		<1.6 - 4.7	88.8	1	23.2	1	37.7	1
Benzyl Chloride		NA	<1.00	1	<1.00	1	<1.00	1
Bromodichloromethane		<5.0	<1.00	1	<1.00	1	<1.00	1
Bromoform		<1.0	<1.00	1	<1.00	1	<1.00	1
Bromomethane		<1.0	<1.00	1	<1.00	1	<1.00	1
Carbon Disulfide		NA	<1.00	1	<1.00	1	<1.00	1
Carbon Tetrachloride	5	<3.1	0.629	0.25	0.566	0.25	0.503	0.25
Chlorobenzene		<2.0	<1.00	1	<1.00	1	<1.00	1
Chloroethane		NA	<1.00	1	<1.00	1	<1.00	1
Chloroform		<2.4	<1.00	1	<1.00	1	<1.00	1
Chloromethane		<1.0 - 1.4	4.31	1	4.44	1	4.79	1
cis-1,2-Dichloroethene		<1.0	<1.00	1	<1.00	1	<1.00	1
cis-1,3-Dichloropropene		NA	<1.00	1	<1.00	1	<1.00	1
Cyclohexane		NA	230	1	121	1	107	1
Dibromochloromethane		<5.0	<1.00	1	<1.00	1	<1.00	1
Dichlorodifluoromethane		NA	2.12	1	2.32	1	2.37	1
Ethanol			1,530	1	1,740	1	1,540	1
Ethyl Acetate		NA	515	1	799	1	926	1
Ethylbenzene		<4.3	183	1	19.5	1	46.9	1
Heptane		NA	265	1	50	1	103	1
Hexachlorobutadiene		NA	<1.00	1	<1.00	1	<1.00	1
Hexane		<1.5	359	1	99	1	130	1
Isopropylalcohol		NA	1,940	1	2,080	1	1,870	1
Isopropylbenzene			13.3	1	<1.00	1	2.01	1
Xylene (m&p)		<4.3	725	1	65.1	1	151	1
Methyl Ethyl Ketone			100	1	111	1	120	1
MTBE		NA	<1.00	1	<1.00	1	<1.00	1
Methylene Chloride		<3.4	2.29	1	1.53	1	1.25	1
n-Butylbenzene			5.43	1	<1.00	1	<1.00	1
Xylene (o)		<4.3	262	1	21.6	1	49.5	1
Propylene		NA	11.8	1	11.7	1	20.1	1
sec-Butylbenzene			<1.00	1	<1.00	1	<1.00	1
Styrene		<1.0	1.58	1	2.04	1	2.47	1
Tetrachloroethene	100		2.1	0.25	1.49	0.25	3.39	0.25
Tetrahydrofuran		NA	<1.00	1	9.87	1	8.34	1
Toluene		1.0 - 6.1	855	1	183	1	356	1
trans-1,2-Dichloroethene		NA	<1.00	1	<1.00	1	<1.00	1
trans-1,3-Dichloropropene		NA	<1.00	1	<1.00	1	<1.00	1
Trichloroethene	5	<1.7	0.806	0.25	0.322	0.25	0.268	0.25
Trichlorofluoromethane		NA	23.6	1	6.62	1	24.4	1
Trichlorotrifluoroethane			<1.00	1	<1.00	1	<1.00	1
Vinyl Chloride		<1.0	<0.25	0.25	<0.25	0.25	<0.25	0.25
BTEX			2,113.80		312.40		641.10	
Total VOCs			8,414.02		6,655.74		7,270.09	

Notes:

- NA No guidance value or standard available
(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006. New York State Department of Health.
(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected Compounds (NYSDOH

FIGURES

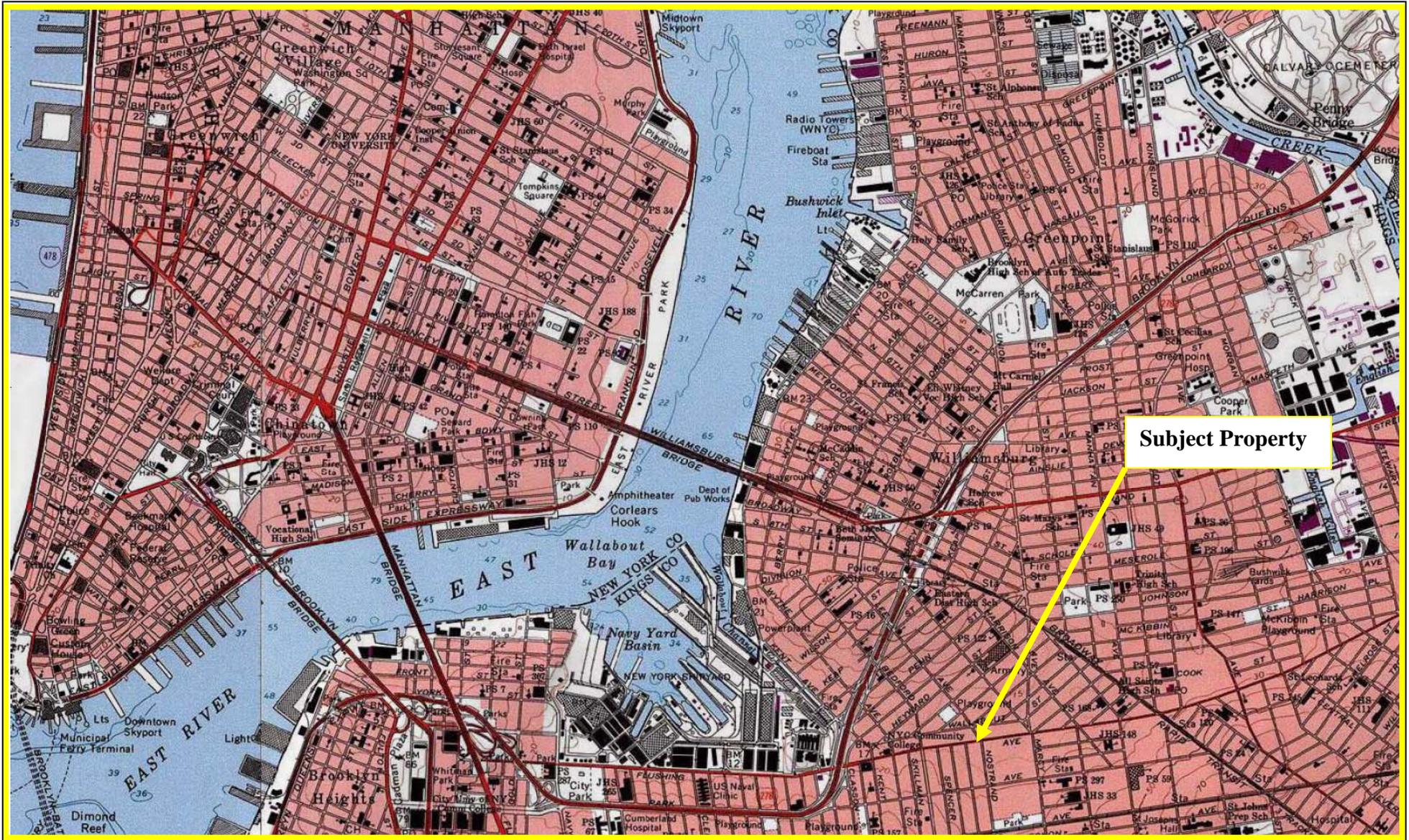


FIGURE 1 – SITE LOCATION

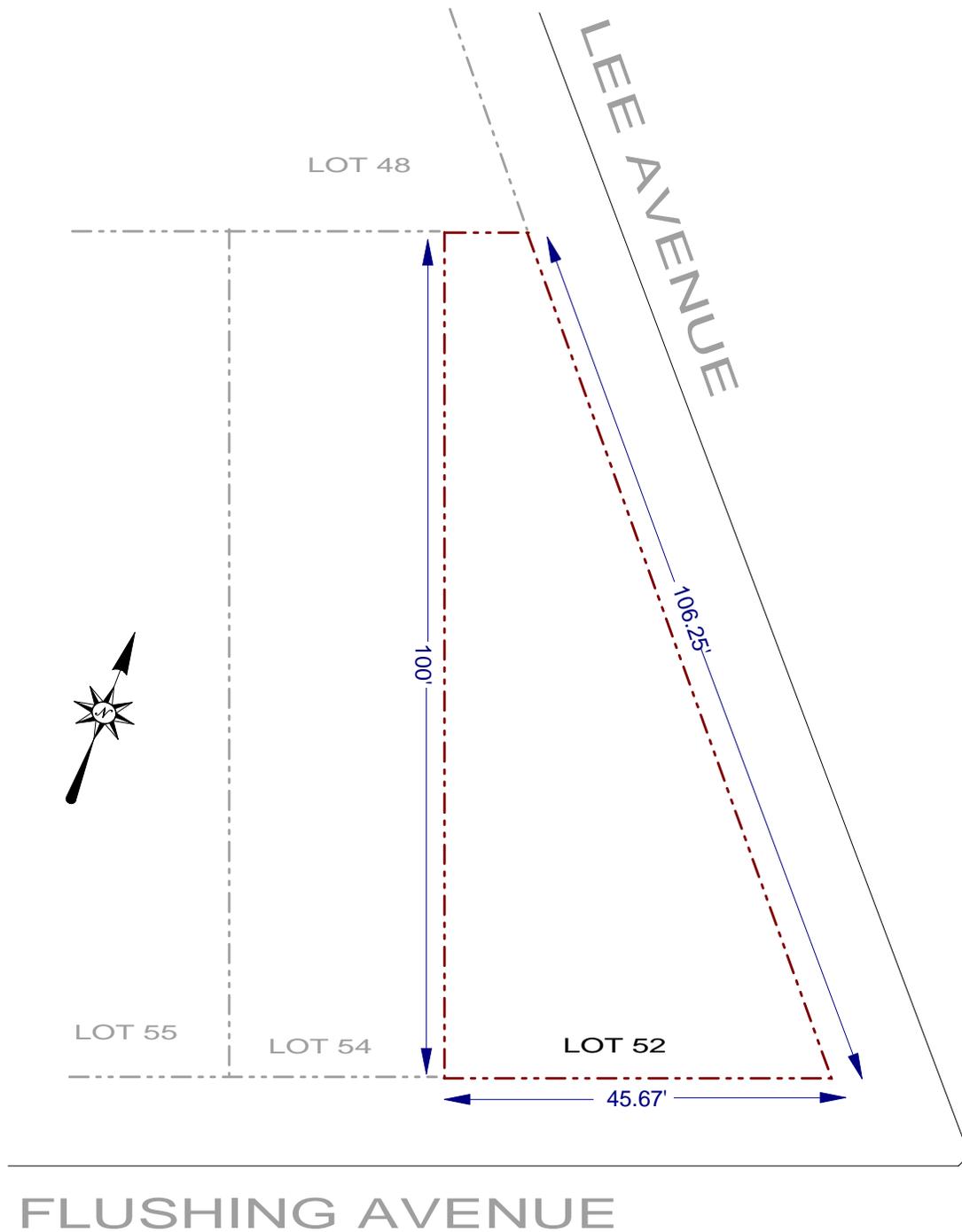
533-537 FLUSHING AVENUE, BROOKLYN, NEW YORK

PHASE II – SUBSURFACE INVESTIGATION WORK PLAN
(BLOCK 2263 LOT 52)

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

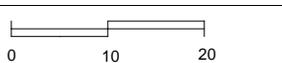
1808 Middle Country Road, Ridge, New York 11961
Phone: (631) 504-6000 Fax: (631) 924-2870



KEY:

 Property Boundary

SCALE:



Scale: 1 inch = 20 feet

FLUSHING AVENUE

Figure No.
2

Site Name:	Redevelopment Project
Site Address:	535-537 Flushing Avenue, Brooklyn, NY
Drawing Title:	Site Boundary Map

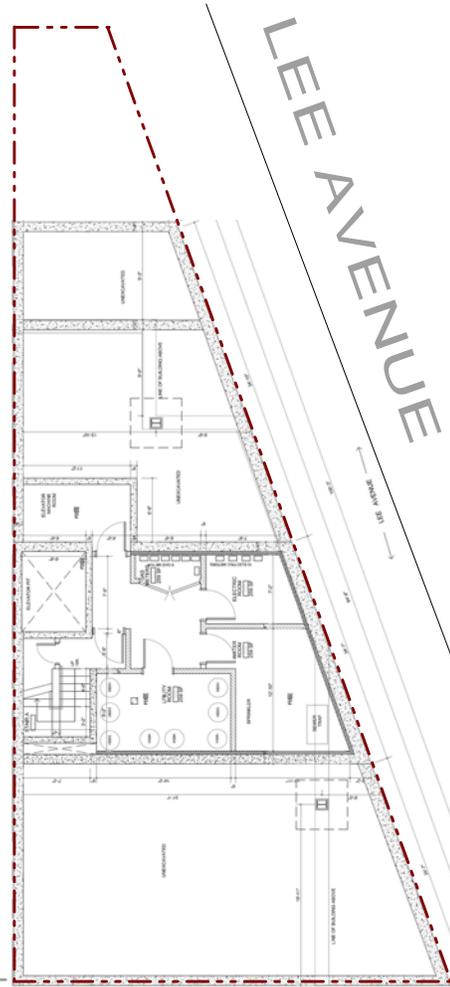


Phone 631.504.6000
Fax 631.924.2870

ENVIRONMENTAL BUSINESS CONSULTANTS

LEE ELEVATION

CELLAR FLOOR PLAN



FLUSHING AVENUE



Phone 631.504.6000
Fax 631.924.2870

ENVIRONMENTAL BUSINESS CONSULTANTS

Figure No.
3

Site Name: Redevelopment Project

Site Address: 535-537 Flushing Avenue, Brooklyn, NY

Drawing Title: Redevelopment Plan

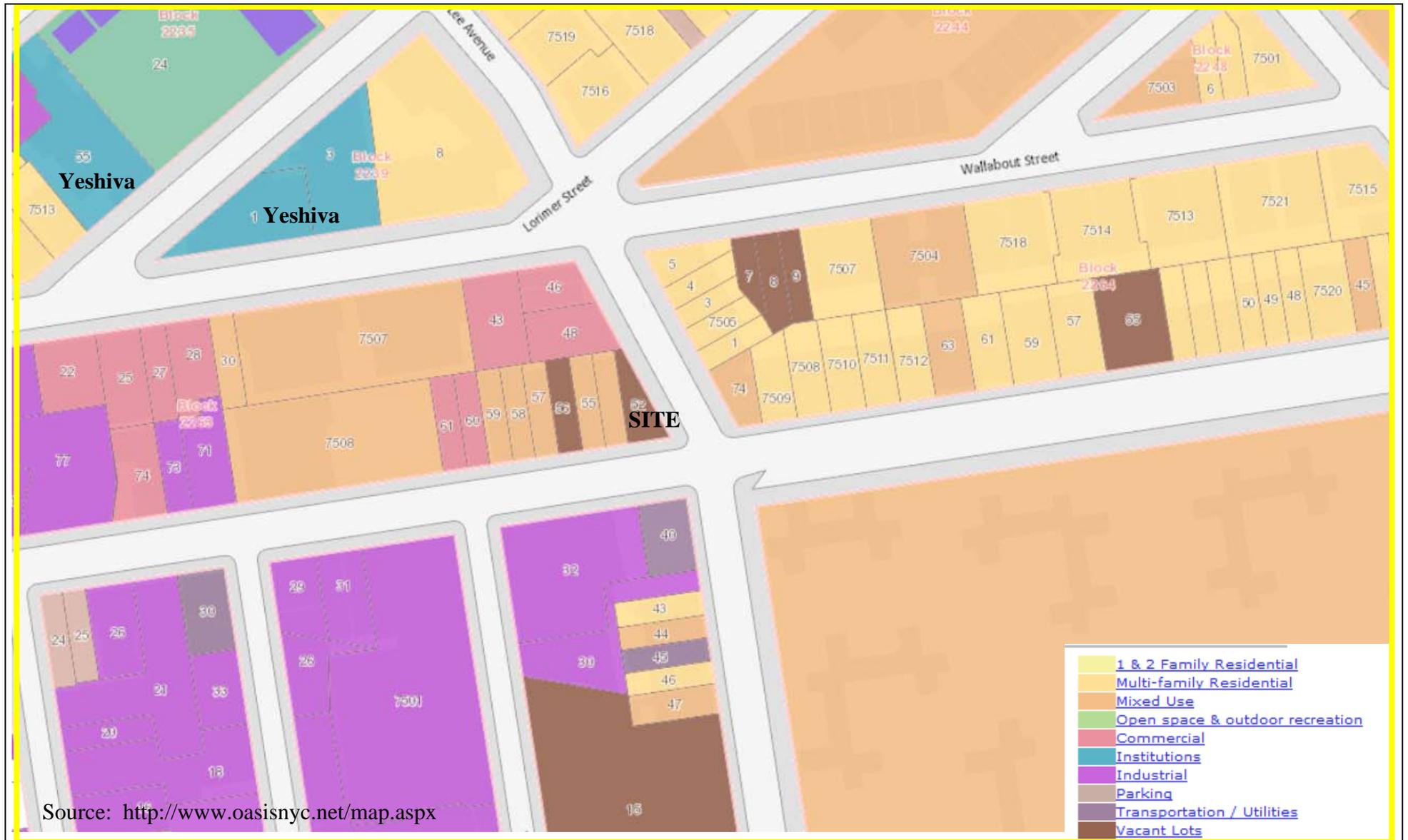
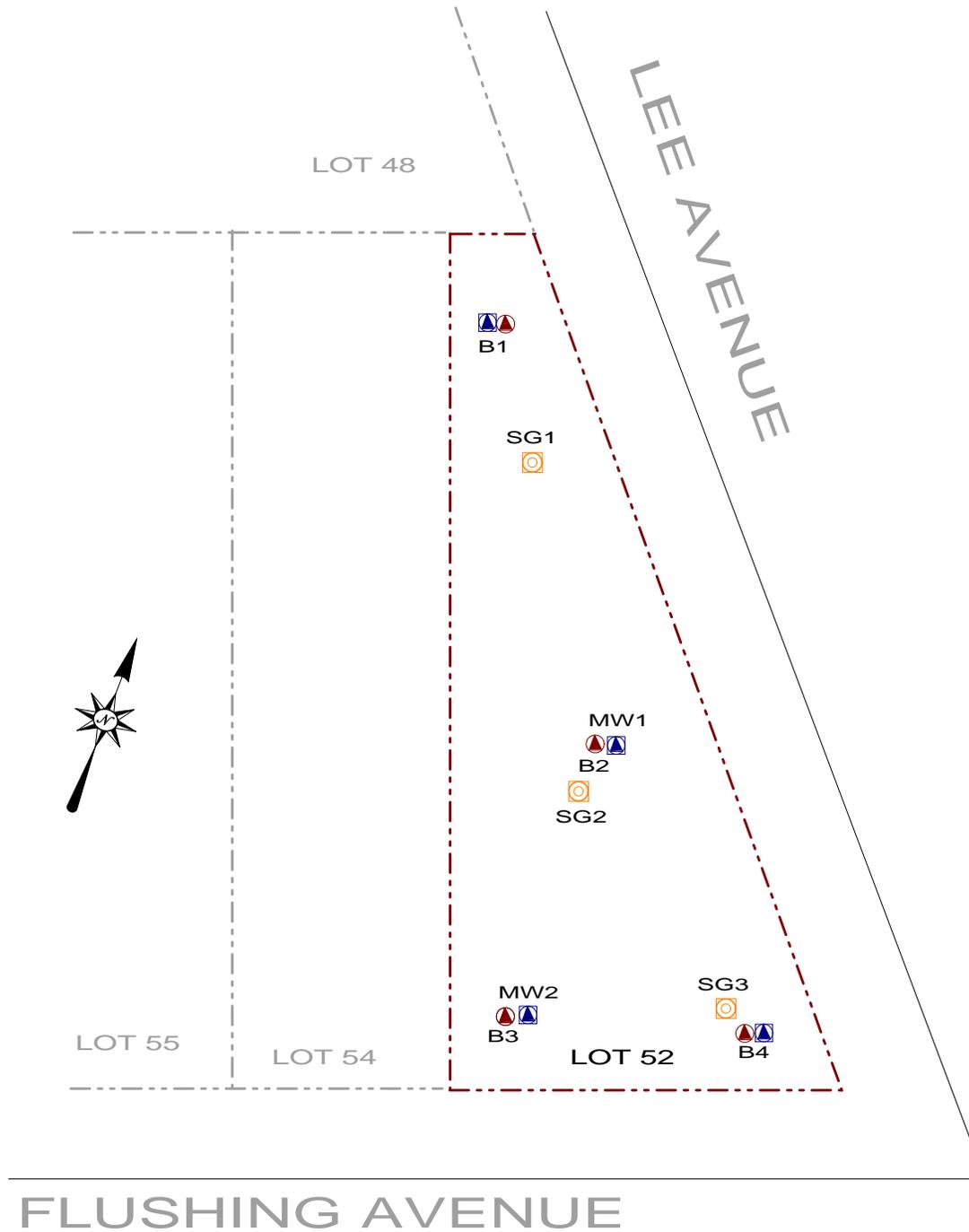


FIGURE 4
SURROUNDING LAND USE MAP

533-535 FLUSHING AVENUE, BROOKLYN NY 11206
 HAZARDOUS MATERIALS REMEDIAL INVESTIGATION REPORT



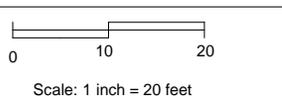
ENVIRONMENTAL BUSINESS CONSULTANTS
 1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
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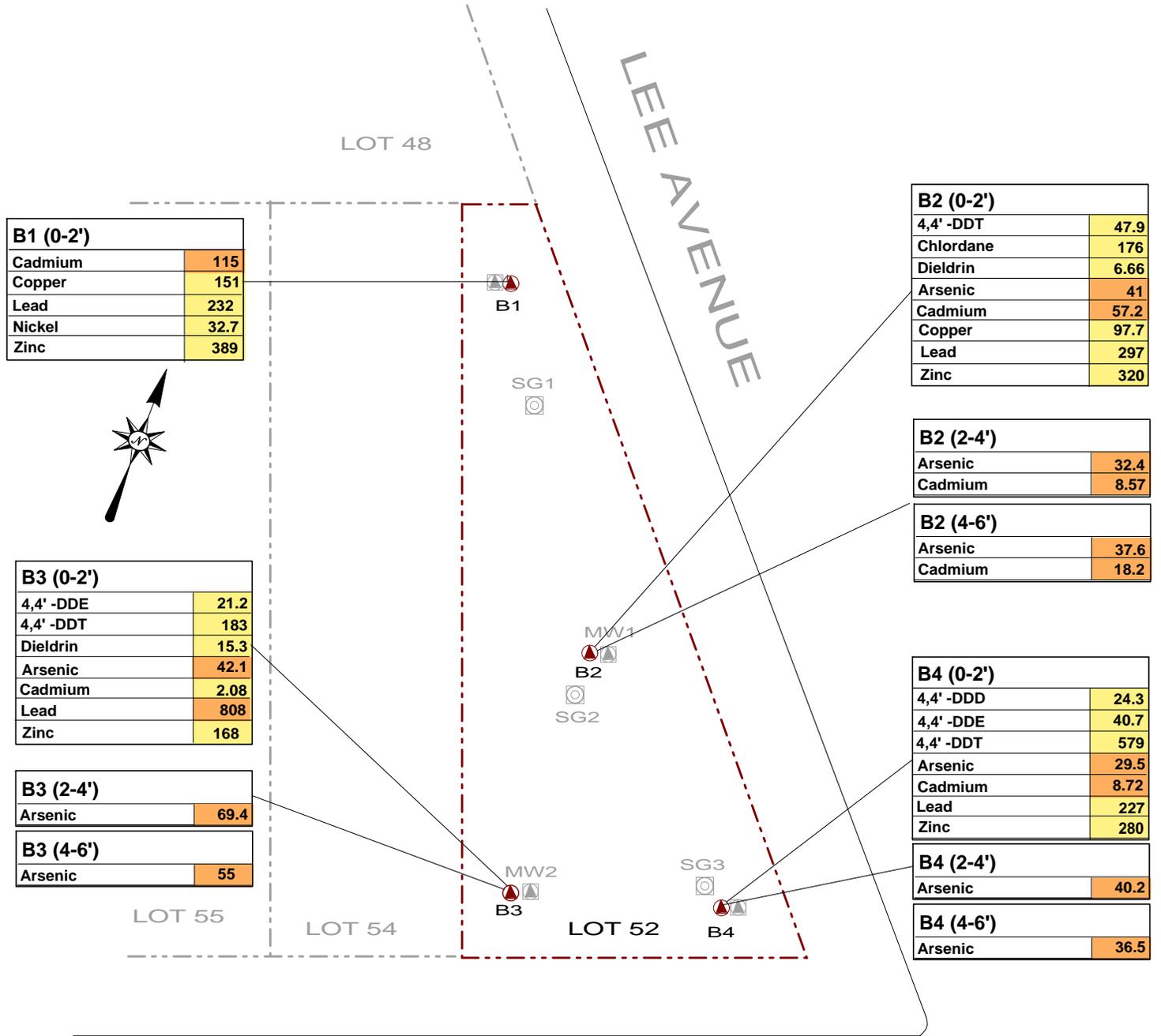
KEY:

-  Property Boundary
-  Groundwater Sampling Location
-  Soil Boring Location
-  Soil Gas Sampling Location

SCALE:



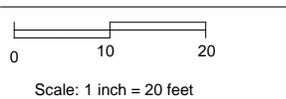
FLUSHING AVENUE



KEY:

- Property Boundary
- Groundwater Sampling Location
- Soil Boring Location
- Soil Gas Sampling Location

SCALE:





LOT 48

LEE AVENUE

B1

Dissolved Metals (mg/L)	
Sodium	11.2



B1



SG1

MW1

Pesticides (ug/L)	
4,4 -DDT	0.17
Chlordane	0.084
Dissolved Metals (mg/L)	
Lead	0.038
Magnesium	67.3
Sodium	385

MW1



B2



SG2

MW2

Dissolved Metals (mg/L)	
Iron	0.53
Lead	0.026
Sodium	45



MW2

B3

SG3



B4

B4

Dissolved Metals (mg/L)	
Nickel	0.268
Sodium	126

LOT 54

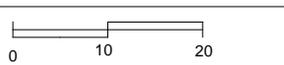
LOT 52

FLUSHING AVENUE

KEY:

- Property Boundary
- Groundwater Sampling Location
- Soil Boring Location
- Soil Gas Sampling Location

SCALE:



Scale: 1 inch = 20 feet



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Figure No.
7

Site Name:	Redevelopment Project
Site Address:	535-537 Flushing Avenue, Brooklyn, NY
Drawing Title:	Groundwater Exceedences Map



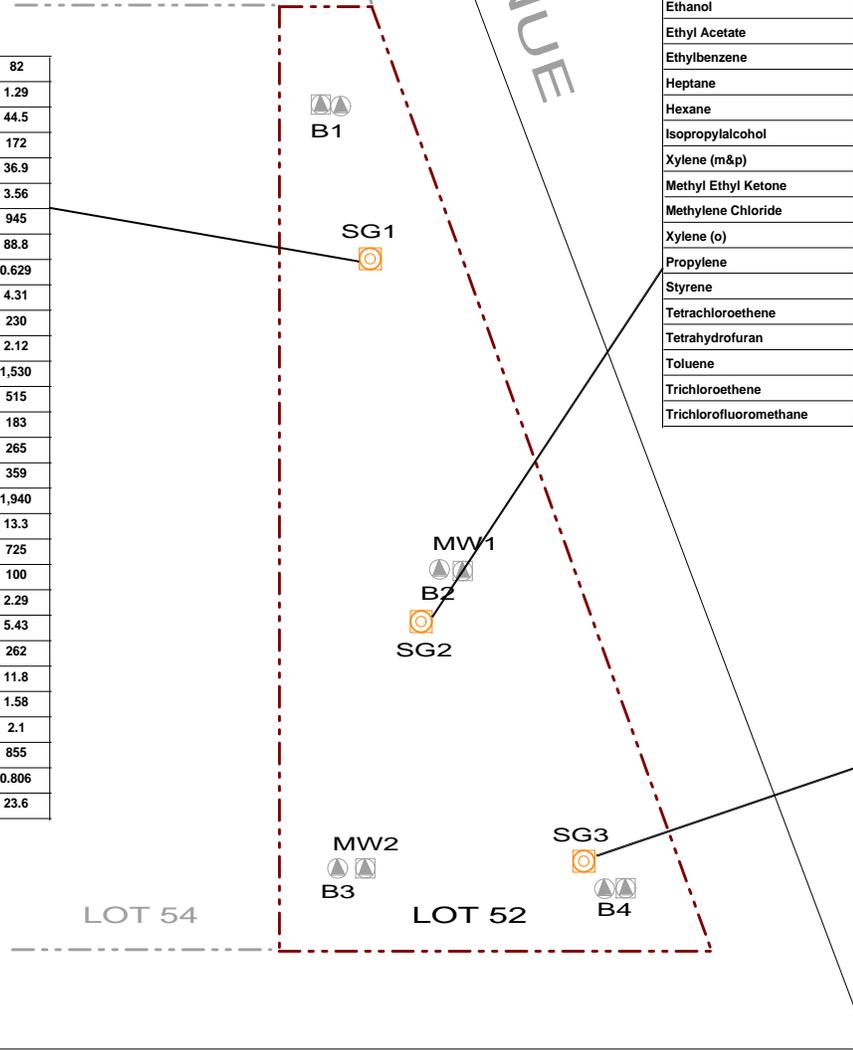
LOT 48

LEE AVENUE

1,2,4-Trimethylbenzene	5.31
1,3,5-Trimethylbenzene	1.82
1,4-Dichlorobenzene	298
4-Ethyltoluene	2.31
Acetone	995
Benzene	23.2
Carbon Tetrachloride	0.566
Chloromethane	4.44
Cyclohexane	121
Dichlorodifluoromethane	2.32
Ethanol	1,740
Ethyl Acetate	799
Ethylbenzene	19.5
Heptane	50
Hexane	99
Isopropylalcohol	2,080
Xylene (m&p)	65.1
Methyl Ethyl Ketone	111
Methylene Chloride	1.53
Xylene (o)	21.6
Propylene	11.7
Styrene	2.04
Tetrachloroethene	1.49
Tetrahydrofuran	9.87
Toluene	183
Trichloroethene	0.322
Trichlorofluoromethane	6.62

1,2,4-Trimethylbenzene	82
1,2-Dichloroethane	1.29
1,3,5-Trimethylbenzene	44.5
1,4-Dichlorobenzene	172
4-Ethyltoluene	36.9
4-Isopropyltoluene	3.56
Acetone	945
Benzene	88.8
Carbon Tetrachloride	0.629
Chloromethane	4.31
Cyclohexane	230
Dichlorodifluoromethane	2.12
Ethanol	1,530
Ethyl Acetate	515
Ethylbenzene	183
Heptane	265
Hexane	359
Isopropylalcohol	1,940
Isopropylbenzene	13.3
Xylene (m&p)	725
Methyl Ethyl Ketone	100
Methylene Chloride	2.29
n-Butylbenzene	5.43
Xylene (o)	262
Propylene	11.8
Styrene	1.58
Tetrachloroethene	2.1
Toluene	855
Trichloroethene	0.806
Trichlorofluoromethane	23.6

1,2,4-Trimethylbenzene	9.63
1,3,5-Trimethylbenzene	5.9
1,4-Dichlorobenzene	363
4-Ethyltoluene	4.57
Acetone	1,380
Benzene	37.7
Carbon Tetrachloride	0.503
Chloromethane	4.79
Cyclohexane	107
Dichlorodifluoromethane	2.37
Ethanol	1,540
Ethyl Acetate	926
Ethylbenzene	46.9
Heptane	103
Hexane	130
Isopropylalcohol	1,870
Isopropylbenzene	2.01
Xylene (m&p)	151
Methyl Ethyl Ketone	120
Methylene Chloride	1.25
Xylene (o)	49.5
Propylene	20.1
Styrene	2.47
Tetrachloroethene	3.39
Tetrahydrofuran	8.34
Toluene	356
Trichloroethene	0.268
Trichlorofluoromethane	24.4

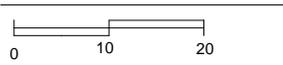


FLUSHING AVENUE

KEY:

- Property Boundary
- Groundwater Sampling Location
- Soil Boring Location
- Soil Gas Sampling Location

SCALE:



Scale: 1 inch = 20 feet



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Figure No.
8

Site Name: **Redevelopment Project**
Site Address: **535-537 Flushing Avenue, Brooklyn, NY**
Drawing Title: **Soil Vapor Detections**

ATTACHMENT A
PHASE I REPORT

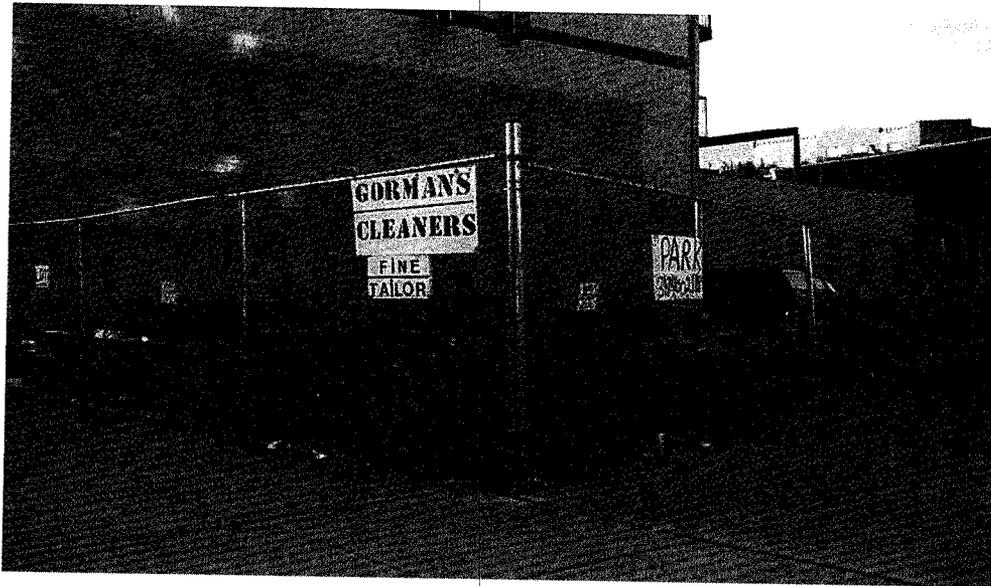


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Report of
Phase I Environmental Site Assessment
533 - 537 Flushing Avenue
Brooklyn, NY 11205



Prepared for

Mr. Sam Halberstam
AAA Group R.E. Services Inc
100-A Broadway
Brooklyn, NY 11211

December 5th, 2008

AEASinc Project 08-0144

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1. SITE LOCATION MAP
2. SITE SKETCH

APPENDICES

- A. PHOTOGRAPHS
- B. REGULATORY AGENCY DOCUMENTS
- C. FIRE INSURANCE MAPS
- D. CITY DIRECTORY ABSTRACT
- E. DATABASE SEARCH RESULTS
- F. CREDENTIALS

1 EXECUTIVE SUMMARY

American Environmental Assessment and Solutions, Inc. (AEASinc) has performed a Phase I Environmental Site Assessment (Phase I ESA) of the property located at 533 - 537 Flushing Avenue, Brooklyn, NY (the "Site" or "Subject Property"). The Phase I assessment was performed on behalf of Mr. Sam Halberstam of AAA Group.

AEASinc's Phase I ESA of the Site followed the scope set forth by the American Society for Testing and Materials International (ASTM) in its Standard Practice for Environmental Site Assessments: Phase I ESA Site Assessment Process (E 1527-05). The purpose of the assessment was to characterize the environmental quality of the Subject Property through identification of Recognized Environmental Conditions (RECs). Any exceptions to, or deviations from the referenced standards are described in Section 2.3 of this report.

The Subject Property consists of a vacant lot. At the time of the Site reconnaissance the vacant lot was enclosed by a chain-linked fence and utilized as parking. The total area of the Subject Property is approximately 3,694 square feet. The Tax Map number for the property is Block 2263; Lot 52. The property is zoned as M1 - 2; Light Manufacturing district. The occupancy code with the New York City Department of Finance for the Subject Property is listed as S1; Residence - Multi -U.

This assessment has revealed evidence of Recognized Environmental Conditions (RECs) in connection with the Site, as defined by ASTM E 1527-05.

On-Site Conditions:

- The Subject Property was identified with the Little "E" Designation for "Hazmat / Noise / Air".

Off-Site Conditions:

This assessment revealed no evidence of recognized environmental conditions off-site that would impact the property.

1.1 ENVIRONMENTAL PROFESSIONAL DECLARATIONS

Ms. Antoinette Ollivierre Senior Geologist, gathered and compiled information contained in this report and performed the site and area reconnaissance.

Antoinette Ollivierre, CEC, CEI
Senior Geologist

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

This summary does not contain all the information presented in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

The following sections provide the details and specific information pertaining to the various components of the Phase I Environmental Site Assessment.

2 INTRODUCTION

2.1 PURPOSE OF SERVICES

American Environmental Assessment & Solutions, Inc (AEASinc) has been retained by Mr. Sam Halberstam of AAA Group (the "Client") to perform a Phase I Environmental Site Assessment (Phase I ESA) at the property located at 533 - 537 Flushing Avenue, Brooklyn New York. The property will hereafter be referred to as the "Site" or the "Subject Property".

The purpose of the Phase I ESA is to characterize the environmental quality of the Subject Property through the determination of Recognized Environmental Conditions (RECs). As defined by the American Society of Testing and Materials (ASTM), a REC is, "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water at the property.

2.2 SCOPE AND RESOURCES

AEASinc performed a Phase I ESA of the Subject Property that generally conforms to the scope and limitations of the Practice. AEASinc has collected information through a number of sources including, but not limited to: a property and neighborhood inspection by trained environmental personnel, a review of historical and current information collected from various federal, state, county and municipal agencies and personnel interviews with Site representatives. Recommendations are offered where prudent. Firms contracted by AEASinc may have collected some information used in this report.

AEASinc did not perform any exploratory probing or discovery, perform tests, operate any specific equipment, or take measurements or samples to perform the Phase I ESA scope. The Phase I ESA was not a building code, safety, regulatory or environmental compliance inspection.

The observations and recommendations presented in this report are time dependent, and conditions will change. This report speaks only as of its date.

2.3 LIMITATIONS, EXCEPTIONS, DEVIATIONS AND DATA GAP

This report does not warrant against: (1) operations or conditions which were not in evidence from visual observations or historical information obtained; (2) conditions which could only be determined by physical sampling or other intrusive investigation

techniques; or (3) locations other than the client provided addresses and/or legal parcel description or information on off-site location (with possible impact on the Site) not published in available records.

The report is intended to be relied upon by the Client, its affiliates, successors and assigns, as well as its lenders. That contractual relationship included an exchange of information about the property that was unique and serves as the basis upon which this report was prepared. Because of the importance of these understandings, our assessment may not be sufficient for the intended purposes of another party.

Reliance or any use of this report by anyone other than those parties identified above, for which it was prepared is prohibited and therefore not foreseeable to AEASinc. Any unauthorized reliance on or use of this report, including any of the information or conclusions contained herein, will be at the third party's risk. No warranties or representations expressed or implied in this report are made to any such third party.

Third party reliance letters may be issued upon timely request and payment of the then-current fee for such letters. All third parties relying on our report, by such reliance, agree that such reliance is limited under the terms of AEASinc's contract with AAA Group.

The methodologies include reviewing information provided by other sources. AEASinc treats information obtained from the record reviews and interviews concerning the property as reliable and the ASTM protocol does not require AEASinc to independently verify the information. Therefore, AEASinc cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. No other warranties are implied or expressed.

This report is presumed to be valid for a period of 180 days from its completion or until the Client obtains specific information that may materially alter a finding, conclusion or opinion in this report or the Client is notified by AEASinc that it has obtained specific information that materially alter a finding, conclusion or opinion in this report.

Exceptions to the ASTM E 1527-05 Practice

The Phase I ESA conducted by AEASinc conforms to and in some instances exceeds the *ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-05)* except for the following: no documentation was provided by the User regarding title records, valuation reduction, environmental liens or use limitations for the Site.

Data Gaps

Data gaps identified during the preparation of this ESA that would substantially affect the ability of AEASinc to identify RECs include the following: no data gap of significance was identified during this Phase I ESA.

3 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION

Summary	
Project Name	Vacant Lot
Property Address	533 - 537 Flushing Avenue
Property Address (Alternate)	272 - 280 Lee Avenue
City, County, State, ZIP Code	Brooklyn, Kings County, NY 11205
Site Area (acres)	0.085
No. Buildings/Units/Stories	Vacant Lot
Area (sf)	Vacant Lot
Occupied Subgrade Spaces?	No
Year(s), First Developed for Current Use	Site has been vacant since 2007

The Subject Property consists of a vacant lot. At the time of the Site reconnaissance the vacant lot was enclosed by a chain-linked fence and utilized as parking. Approximately eight vehicles were identified parked on the vacant lot. Access to the Site is from the east via Lee Avenue.

The total area of the Subject Property is approximately 3,694 square feet. The Tax Map number for the property is Block 2263; Lot 52. The property is zoned as M1 - 2; Light Manufacturing district. The occupancy code with the New York City Department of Finance for the Subject Property is listed as S1; Residence - Multi -U.

The Subject Property is located on the northwestern corner of Flushing Avenue and Lee Avenue. A Site Location Map is attached to this report.

Current use(s) of surrounding property includes a one story building to the north (church), a lot to the south (utilized for storage, parking and yard), a four story brick building to the east and a four story brick building to the west.

3.2 PHYSICAL SETTING

AEASinc reviewed United States Geological Survey (USGS) Topographic (Topo) Maps and other information regarding the physical setting of the site to assist with the interpretation of subsurface water movement near the property.

Summary	
Source Name	Year Published/Issued
USGS 7.5 Minute Topo Map	Brooklyn, NY Quadrangle 1995
FEMA Flood Map	New York City – 3604970096B, July 5 th , 1994
Notes: FEMA = Federal Emergency Management Agency.	

The subject property is located in the northern portion of Brooklyn (Williamsburg), Kings County. The elevation of the subject property is approximately 12 feet above sea level (USGS 7 1/2-Minute Brooklyn Quadrangle, 1967, Photorevised 1995).

The topography in the vicinity of the Subject Property is nearly level to gently sloping with the ground surface covered by asphalt, concrete and native soil in some areas.

Brooklyn, New York is located in the western portion of Long Island. Long Island consists of a wedge-shaped mass of unconsolidated deposits that overlie ancient basement rock. The thickness of these deposits ranges from approximately 100 feet on the Island's north shore, to approximately 2,000 feet in some portions of the south shore. These deposits contain ground water that is the sole source of drinking water for the Island's over 3.1 million residents.

The major landforms of Long Island of importance to the hydrologic system are the moraines and outwash plains, which originated from glacial activity. The moraines represent the farthest extent of the glacial advances. The moraines consist of till, which is a poorly sorted mixture of sand, silt, clay, gravel, and boulders. The till is poorly to moderately permeable in most areas. Outwash plains are located to the south of the moraines.

The outwash plains were formed by the action of glacial melt water streams, which eroded the headland material of the moraines and laid down deposits of well-sorted sands, silts, and gravel. These outwash deposits have a moderate to high permeability.

The **Upper Glacial Aquifer** is the uppermost hydrogeologic unit. This aquifer encompasses the moraine and outwash deposits, in addition to some localized lacustrine, marine, and reworked materials. A relatively high horizontal hydraulic conductivity and a low vertical hydraulic conductivity characterize the outwash plain portion of this unit. Since the water table is situated in the Upper Glacial Aquifer, the water quality has been degraded in many areas due to industrial activities.

The **Magothy Formation** directly underlies the Upper Glacial Aquifer in the vicinity of the site. This formation is a Cretaceous coastal-shelf deposit, which consists principally of layers of sand and gravel with some interbedded clay. This formation ranges from

poorly to moderately or highly permeable. A clay layer in some parts of Long Island confines the uppermost portion of the aquifer. The Magothy is Long Island's principal aquifer for public water supply. The United States Environmental Protection Agency (USEPA) has classified the Long Island aquifer system as a sole source aquifer.

The **Raritan Formation** is the deepest unit and rests directly above the bedrock units. This formation is comprised of a sand member (**Lloyd Aquifer**) and a clay member (**Raritan Clay**). The Lloyd sand extends southward from Flushing Bay to the Atlantic Ocean. The thickness of the sand member increases to the southeast and ranges in depth from 200 to 800 feet below sea level (from northwest to southeast). The clay member acts as an aquitard confining the lower Lloyd aquifer between the clay and the underlying bedrock.

Long Island has a humid, temperate climate that is strongly influenced by Long Island Sound and the Atlantic Ocean. These bodies of water temper extremes of heat in summer and cold in winters. Climate affects the formation of soil through its influence on chemical, biological and physical processes. The amount and content of rainwater, as it percolates through the soil, chemically alters the composition of the soils. Chemical and biological processes are also affected by temperature changes. The physical weathering of the soil and rocks is affected by freezing and thawing activities.

The soils of Long Island are relatively young, having developed since the last recession of glaciation approximately 25,000 years ago. Over thousands of years, the minerals in the bedrock debris slowly decayed and disintegrated, providing the necessary substrate to support biological activity. Rock-forming minerals such as feldspars and micas, that are rich in potassium and aluminum, release their important elements as they are converted to clays. Soils formed in glacial drift are commonly known as loam, a mixture of sand, silt and clay.

The soils of Long Island formed three distinct soil horizons or zones on glacial deposits. The lowest horizon, designated as the C-horizon, is similar in composition to the transported glacial rock debris. The B-horizon is above the C-horizon and consists of sediments that have been considerably altered from their C-horizon source. Vadose zone water percolates through the B-horizon, carrying compounds of clay, iron, aluminum oxides, carbonates and humic acid. These materials are redeposited within the lower portions of the B-horizon, and form the zone of accumulation. The zone of accumulation may also be the zone of ground water saturation and the location of the water table.

The zone of leaching is found in the A horizon, which is the upper, organic-rich and life sustaining layer with abundant roots and organic matter at the surface. The A horizon is distinct from the underlying B & C horizons because it is darker and more friable.

Differentiation in soil horizons are the result of various soils-forming processes such as the physical breakdown of particles, the leaching of salts, the accumulation of organic matter and the chemical weathering of primary minerals. The chemical weathering of primary minerals occurs through processes such as chelation, the formation of silicate clay minerals, the translocation of silicate clay minerals by percolating water from one horizon to another and the accumulation of iron colloids.

Site-specific groundwater flow has not been determined; however, groundwater flow directions are inferred based on surface topography, which typically reflects groundwater flow direction. The actual direction of groundwater flow may differ from that assumed and may be influenced by the presence, if any, of subsurface structures or large volume withdrawal wells in the area.

The depth to groundwater in the vicinity of the Subject Property is believed to be approximately 5 – 10 feet below grade. Based on our interpretation of the physical setting sources and our experience, AEASinc infers that groundwater flow direction in the vicinity of the Subject Property is towards the southwest, in the direction of the East River. The East River is located approximately 4,047 feet from the Subject Property.

Surface water runoff on the Site flows to the surrounding Streets that are connected to the City storm water sewer system.

3.3 CURRENT USE OF THE SUBJECT PROPERTY

Ms. Antoinette Ollivierre Senior Geologist gathered and compiled information for this Phase I Environmental Site Assessment, including performing the site and area reconnaissance on December 3rd, 2008. Credentials and qualifications of persons responsible for preparation of this report are appended.

The Subject Property consists of a vacant lot. At the time of the Site reconnaissance the vacant lot was enclosed by a chain-linked fence and utilized as parking. Approximately eight vehicles were identified parked on the vacant lot. Access to the Site is from the east via Lee Avenue, through a chain-linked gate.

The Subject Property is located on the northwestern corner of Flushing Avenue and Lee Avenue.

Photographs of the Subject Property are attached as appendices to this report.

A summary of our interpretation of the current uses and conditions of the Subject property, adjoining and surrounding property based on historical records and observations is provided below.

3.4 CURRENT USAGE OF ADJOINING PROPERTIES

A summary of uses and conditions of adjoining properties that could be identified during the course of our reconnaissance and research of the subject property is tabulated below. Detailed information is discussed following the summary along with an opinion about the significance of the listing.

Summary		
Identified?		
Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hazardous Substances
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Petroleum Products
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aboveground or Underground Storage Tanks (ASTs/USTs)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drums
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Suspect Containers
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Electrical or Mechanical Equip. Suspected to Contain PCBs
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Interior Stains or Corrosion
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drains or Sumps
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wastewater Discharges
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Septic or Sewage Tanks
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pits, Ponds or Lagoons
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pools of Liquid or Standing Water
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solid Waste Dumping/Landfills/Suspect Fill Material
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stained Soil or Pavement
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stressed Vegetation
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drinking Water Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Irrigation Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Monitoring Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Odors
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Uses or Conditions of Concern

AEASinc did not observe the above listed uses or conditions on the eastern adjoining property during the property reconnaissance.

4 USER-PROVIDED INFORMATION

4.1 TITLE RECORDS

Title records were not provided to AEASinc for review for evidence of environmental liens or any activity and use limitation related to the environmental condition of the property and was not incorporation into this report. In addition, AEASinc was not requested to perform a title search for the Site.

4.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATION

In the conduct of this Phase I ESA, AEASinc found no information concerning the existence of any environmental liens or use restrictions for the Site. The EDR database report of sites with environmental institutional engineering controls did not indicate any activity or use limitations within ½ mile radius of the Site. This information is based on a registry of such sites maintained and released quarterly by the NYSDEC. Environmental lien information was not provided to AEASinc. A title company or title professional should be retained to check reasonably ascertainable recorded land title for environmental liens or activity and land use limitations currently legally recorded against the property

4.3 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

There is no information available concerning the valuation reduction of the Site based on associated environmental issues.

4.4 PREVIOUS ENVIRONMENTAL REPORTS

No previous environmental reports or survey was provided to AEASinc for the Subject Property.

5 SITE RECONNAISSANCE

Mr. Robbi Pollack Site contact, arranged for AEASinc's access to the Subject Property to perform the site reconnaissance. The Site reconnaissance was performed on December 3rd, 2008.

The ground reconnaissance consisted of observing the periphery of the property and viewing the site from accessible adjacent public access areas. Visual reconnaissance of adjoining properties was limited to areas and facilities that were readily observable from the subject property or from public access areas.

AEASinc systematically toured interior portions of the property to provide an overlapping field of view. The periphery of structures, where present on the property, was observed along with accessible interior common areas and maintenance/repair areas.

AEASinc took photographs to document selected features. Photographs of selected features are attached to this report.

5.1 INTERIOR AND EXTERIOR OBSERVATIONS

The Subject Property consists of a vacant lot. At the time of the Site reconnaissance the vacant lot was enclosed by a chain-linked fence and utilized as parking. Approximately eight vehicles were identified parked on the vacant lot. Access to the Site is from the east via Lee Avenue. All accessible areas of the ground surface of the vacant lot were inspected.

The Subject Property is located on the northwestern corner of Flushing Avenue and Lee Avenue. Access to the Subject Property is via Lee Avenue to the east, through a chain-linked gate.

A summary of uses and conditions is tabulated below. Detailed information is discussed following the summary along with an opinion about the significance of the listing.

Summary		
Identified?		
Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hazardous Substances
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Petroleum Products

Summary		
Identified?		
Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aboveground or Underground Storage Tanks (ASTs/USTs)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drums
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Suspect Containers
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Electrical or Mechanical Equip. Suspected to Contain PCBs
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Interior Stains or Corrosion
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drains or Sumps
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wastewater Discharges
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Septic or Sewage Tanks
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pits, Ponds or Lagoons
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pools of Liquid or Standing Water
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solid Waste Dumping/Landfills/Suspect Fill Material
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stained Soil or Pavement
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stressed Vegetation
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drinking Water Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Irrigation Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Monitoring Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Odors
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Uses or Conditions of Concern

AEASinc did not observe the above listed uses or conditions on the Subject Property during the Site reconnaissance.

Hazardous Substances

No evidence of hazardous substance was identified during the Site reconnaissance at the Subject Property. No evidence of historical usage or storage of hazardous substances was identified at the Subject Property.

Petroleum Products

No evidence of petroleum product was identified during the Site reconnaissance at the Subject Property.

ASTs/USTs

No ASTs or USTs were identified at the Subject Property during the Site reconnaissance. No evidence of former ASTs or USTs was identified at the Subject Property.

Drums

No evidence of 55-gallon drums was identified during the Site reconnaissance at the Subject Property.

Suspect Containers Not Necessarily In Connection With Identified Uses

No suspect containers were identified during the Site reconnaissance at the Subject Property.

Electrical Or Mechanical Equipment Suspected To Contain PCBs

No evidence of PCB or PCB-containing equipment was identified during the Site reconnaissance at the Subject Property.

Interior Stains Or Corrosion

No Evidence of staining was identified during the Site reconnaissance at the Subject Property.

Drains Or Sumps

No evidence of drains or sumps was identified during the Site reconnaissance at the Subject Property. No evidence of former floor drains was identified on the Subject Property. No evidence of subsurface drainage structures such as leaching pools, cesspools or dry wells was identified at the Subject Property. No evidence of former subsurface drainage structures such as leaching pools, cesspools or dry wells was identified at the Subject Property.

Wastewater Discharges

No evidence of wastewater discharge was identified on the Subject Property. The property is currently a vacant lot.

Septic or Sewage Tanks

No evidence of septic or sewage tanks. No evidence of former septic or sewage tanks was identified on the Subject Property.

Pits, Ponds, Or Lagoons

No evidence of pits, ponds or lagoons was identified at the Subject Property.

Pools Of Liquid Or Standing Water

No evidence of pools of liquids or standing water was identified at the Subject Property.

Solid Waste Dumping, Landfills, Or Suspect Fill Material

No evidence of solid waste dumping, landfills or suspect fill material was identified during the Site reconnaissance at the Subject Property.

Stained Soil Or Pavement

No evidence of stained soil or pavement was identified at the Subject Property.

Stressed Vegetation

No areas of stressed vegetation were identified at the Subject Property.

Wells

No drinking water/production wells, irrigation wells, or monitoring wells were identified at the Subject Property. Testing of drinking water is beyond the scope of this Phase I ESA.

Odors

No evidence of odors was identified at the Subject Property.

Other Uses Or Conditions Of Concern

No evidence of other uses or concern except for the above listed concerns was identified at the Subject Property.

UTILITIES

Utility systems identified at the property are summarized below:

The Subject Property was identified as a vacant lot. No utilities including gas, electric, sewage or water was identified at the Site.

6 ENVIRONMENTAL REGULATORY RECORDS REVIEW

6.1 FREEDOM OF INFORMATION REQUESTS

AEASinc submitted Freedom of Information Law (FOIL) requests to the agencies tabulated below. Response status is also tabulated.

Summary		
Response?		
Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	New York City Bureau of Fire Prevention (NYCBFP)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York State Department of Environmental Conservation (NYSDEC)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York City Department of Environmental Protection (NYCDEP)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York City Department of Buildings (NYCDOB)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York City Department of Planning
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York City Department of Finance
Note: Response status based on date of report.		

New York City Bureau of Fire Prevention

A FOIL request was submitted to the New York City Bureau of Fire Prevention (NYCBFP). As of the date of this report, the NYCBFP has not responded to our initial search request or subsequent follow-up calls. Any information obtained will be provided as soon as it has been received and evaluated.

New York State Department of Environmental Conservation

A FOIL request was submitted to the New York State Department of Environmental Conservation (NYSDEC). FOIL request number R2-08-1899 was assigned to the request by NYSDEC on December 2nd, 2008. As of the date of this report, no further information was obtained from the NYSDEC. Any information obtained will be provided as soon as it has been received and evaluated.

New York City Department of Environmental Protection

A FOIL request was submitted to the New York City Department of Environmental Protection (NYCDEP). Foil request log numbers 44161, 44158, 44162 and 44163 were assigned to the request by NYCDEP on December 3rd, 2008. As of the date of this report, no further information was obtained from the NYCDEP. Any information obtained will be provided as soon as it has been received and evaluated.

New York City Department of Buildings (NYCDOB)

A FOIL request was submitted to the NYCDOB. The Tax Map number listed for the Subject Property is Block 2263; Lot 52. The NYCDOB records indicated that 20 open violations are associated with the Subject Property. The information obtained for the violations indicated that they are associated with construction and failing to maintain the building that previously occupied the Site.

Further review of the NYCDOB records indicated that alteration to the building which previously occupied the Site occurred in 1915, 1919, twice in 1927, twice in 1934, 1947, twice in 1948, 1950, 1953, 1966, and 2006. Demolition permits were issued to the Site in 1966, 1967 and 2007. No additional information was provided for the Subject Property in the NYCDOB records.

New York City Department of Planning

A FOIL request was submitted to the New York City Department of Planning and Zoning Department. The New York City Zoning Department indicates that the Subject Property is zoned M1 - 2: Light Manufacturing District. The Little "E" Restriction for the Subject Property is listed as "Hazmat / Noise / Air". The presence of the Little "E" Restriction associated with the Subject Property is a Recognized Environmental Concern. The Department of Finance Occupancy Code for the Subject Property is listed as "S1 - Residence - Multi - U".

7 SITE HISTORY

AEASinc used USGS Topo maps and retained EDR to provide information about the history of the site and its surroundings. AEASinc also referenced other historical sources.

Summary			
Source Type	Years Reviewed	Source	Note
USGS Topo Maps	See Section 3.1.2	USGS / EDR	
Fire Insurance Maps	1887, 1904, 1918, 1935, 1947, 1950, 1965, 1977, 1979, 1980, 1981, 1982, 1984, 1986, 1987, 1989, 1991, 1993, 1995, 1996	EDR / Sanborn	
City Directories	Beginning at 1928 at 5-yr interval through 2005	EDR	
NA = None Available (Not Readily Ascertainable). NR = Not Reviewed. NPR = Not Practically Reviewable. Topographic Maps reviewed are previously listed.			

7.1 FIRE INSURANCE MAPS

Our interpretation of the past uses of the property is tabulated below.

Summary		
Address	Year(s)	Interpreted Property Use
533 - 537 Flushing Avenue Brooklyn, NY	1887	3-story building in the southeastern portion / 1-story building in the northern portion noted as Hay & Feed / 2-story building in the western portion
	1904	Two 3-story buildings in the southern portion & a stable located in the northern portion of Site
	1918, 1935, 1947, 1950	Two 3-story buildings in the southern portion & a 1-story in the Northern portion of Site
	1965	3-story building & vacant 1-story in the northern section of Site
	1977, 1979, 1980, 1981, 1982, 1984, 1986, 1987, 1989, 1991, 1993, 1995, 1996	3-story building utilized as a store and vacant on 2 & 3 floors

Fire Insurance Maps were obtained and evaluated in order to establish the history of the Subject Property.

Fire Insurance Maps dated 1887, indicated that the Subject Property was previously developed with a 3-story building in the southeastern portion of the Site utilized as a store, a 1-story building in the southwestern portion noted as hay & feed and a stable in the northern portion of the Subject property. J Reeber & Co was noted to be the tenant during 1887 as indicated by the Fire Insurance map.

Fire Insurance map dated 1904 indicated that a 3-story building replaced the 1-story building identified in the southwestern portion of the Site. No other changes were identified on map 1904. Fire Insurance Maps dated 1918 indicated that two 3-story buildings occupied the southern portion of the Site and utilized as stores. A 1-story building was identified in the northern portion of the Site at 270 - 274 Lee Avenue. Fire insurance maps dated 1935 through 1950, did not identify any changes to the structure on the Subject Property except for utilization of portions of the Site. The 1-story building was utilized for broom manufacturing. Then as indicated by Fire Insurance map 1965, the two 3 story buildings were converted into one 3-story building and the 1 story building in the northern portion of the Site was then vacant.

Fire Insurance map dated 1977 indicated that the 1 story building no longer occupied the northern portion of the Site. Fire Insurance maps dated 1979 through 1996 indicated that the Subject Property contain a 3-story building utilized as a store with the 2nd and 3rd floors vacant.

The overall evaluation of the historical Site information indicates that the Subject Property was previously developed with 3-story buildings and utilized as stores. No indication of tank(s) was noted on the Fire Insurance Maps.

Fire Insurance Maps indicated that the surrounding properties were mainly three and four story buildings with commercial usage. Fire Insurance maps dated 1965 through 1996 indicated that the southern adjacent property was utilized as a gas station. Additional information is required to determine whether this adjacent property presented any environmental threat(s) to the Subject Property.

7.2 CITY DIRECTORY ABSTRACT REVIEW

To further assess the past usage of the Subject Property, the City Directory Abstract obtained for the Site and surrounding area was reviewed by AEASinc and is summarized in the following table.

The City Directory report lists occupants by address and year. The City Directory information is presented and referenced at 5-year intervals from 1928 through 2005. City Directory report obtained indicated that the Subject Property has been listed in the

directory since 1928. Surrounding properties were also identified in the Street Directory.

The following provides a list of the various occupants at the Subject Property from 1928 through 2005:

Address	Year(s)	Property Usage (s)
533 & 535 Flushing Avenue Brooklyn, NY	1928, 1934, 1940, 1945, 1949, 1960, 1965, 1970, 1973, 1976, 1980, 1985, 1992, 1997, 2000, 2005	Address not listed
537 Flushing Avenue Brooklyn, NY	1940, 1970, 1973, 1976, 1980, 1985, 1992, 1997, 2000, 2005	Address not listed
	1928	Scheurer Christian G R Casesa G Pastry Scheurer WM H Monumts
	1934	Tumminello John Meats H DO
	1945	Sunshine Broom & Brush Co
	1949	Gus Bar & Grill
	1960, 1965	Tee Jay Tavern Inc

No occupants of environmental concern were listed in the City Directory Abstract.

The City Directory Abstract and Fire Insurance Maps are attached to this report.

8 NEIGHBORHOOD HAZARDOUS WASTE DATABASE

AEASinc retained Environmental Data Resources, Inc. (EDR) to provide environmental database information attributed to the site and its surroundings. EDR obtains environmental databases published by local, state, tribal, and federal agencies and geocodes the information for electronic searches.

The search was conducted on databases as specified in ASTM E 1527-05. Due to the intense urban development surrounding the subject property, the Approximate Minimum Search Distance (AMSD) was limited to a ¼ mile.

Unmappable (orphan) sites listed with insufficient address or geocoding information were evaluated for potential location within the AMSD. AEASinc used information provided about the city, county and Zip Code attributed to these sites to determine if they are located in the vicinity of the subject property.

The distribution of listed sites with respect to the property is tabulated and mapped in the database report, which is appended. AEASinc did not image the database results table into the body of this report to reduce the chance for transcription errors. The reader is referred to this table which can be found near the front of the database report.

The database reported unmappable (orphan) listed sites. AEASinc reviewed the information from the database provided about these sites, and those that could be field-verified within the AMSD are discussed in the appropriate section below.

8.1 DATABASE FINDINGS

SUBJECT PROPERTY

A review and evaluation of the federal and state databases listed in the database report identified the Subject Property in the "E" Designation databases. The Subject Property was identified under CEQR # 06DCP007K. The presence of the "E" Designation associated with the Subject Property is a Recognized Environmental Concern.

ADJOINING AND SURROUNDING PROPERTY

Further review and evaluation of the federal and state databases did not identified any of the adjacent properties listed in the database report.

AEASinc considered most of the listed sites unlikely to impact the Subject Property, based upon factors including (but not limited to):

- The nature of the listing

- The use of the site
- When the site was listed and its current listed status
- The development density of the setting
- The distance between the listed and Subject Property as related to the distance that releases are likely to migrate based on local surface and subsurface drainage conditions
- The presence of intervening drainage divides
- The inferred groundwater movement

AEASinc's discussion of the remaining sites is as follows:

CERC-NFRAP

CERC-NFRAP is a list of archives sites that have been removed and archived from the inventory of CERCLIS sites. Archive status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

The database report identified two CERC- NFRAP surrounding sites within a ½ mile radius of the Subject Property. One CERC-NFRAP site was identified upgradient to the Subject Property. The surrounding upgradient site was identified as Borden Chemical Adhesives & Chemicals. Based upon the information in the database AEASinc do not believe that this upgradient site should impact upon the environmental quality of the Subject Property.

CORRACTS

CORRACTS is a list of handlers with RCRA Corrective Action Activity. The database report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity. The database report identified two CORRACTs surrounding sites within a ½ mile radius of the Subject Property. Both CORRACTs sites were identified upgradient to the Subject Property and listed with violations.

The following are the information identified in the database for the upgradient CORRACTS sites with violations.

1)

Facility Name Address	Techtronics Ecological Corp 8 Walworth Street Brooklyn, NY	Map ID No. Distance (mile) Direction	M55 <0 - 1/8 (495 feet) southwest of subject property
<p>This property was identified upgradient to the Subject Property in the CORRACTS database. Information in the database revealed that this property was utilized for paint & coating manufacturing. Additional information in the database identified 19 violations in the RCRA - NONGEN database associated with this property. Evaluation of the information in the RCRA - NONGEN database revealed that these violations occurred from 1985 through 1990. Areas of violation included Generator - Annual Reporting Requirements, non-financial records review, financial records review, focused compliance, permits and generator manifest. The database report indicated that compliance has been met for these violations.</p> <p>This property was also identified in the FINDS and Manifest database.</p> <p>Based on the current regulatory compliance and separation distance, AEASinc does not believe that this CORRACTS site would impact the environmental quality of the Subject Property.</p>			

2)

Facility Name Address	Pfizer Inc 11 Bartlett Street Brooklyn, NY	Map ID No. Distance (mile) Direction	139 ¼ - ½ (1,587 feet) east of subject property
<p>This property was identified upgradient to the Subject Property in the CORRACTS database. Information in the database identified 6 violations in the RCRA - NONGEN database associated with this upgradient property. Evaluation of the information in the RCRA - NONGEN database revealed that these violations occurred from 1984 through 1987. Areas of violation included Generator - Generators General.</p> <p>This property was also identified in the FINDS RCRA - LQG, RAATS and Manifest database.</p> <p>Based on the current regulatory compliance and separation distance, AEASinc does not believe that this CORRACTS site would impact the environmental quality of the Subject Property.</p>			

RCRA

The EPA's RCRA Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Generators database is a compilation by the EPA of reporting facilities that generate hazardous waste. Two surrounding properties were identified in the RCRA large quantity generator database and four surrounding properties were identified in the RCRA small quantity generator database within ½ mile radius of the subject property. All the RCRA large quantity generator sites and RCRA small quantity generator sites were identified upgradient to the Subject Property and with no violations.

Based upon the information identified in the database AEASinc believes that the surrounding RCRA site identified should not impact the environmental quality of the Subject Property.

RCRA -CESQG

RCRA Conditionally Exempt Small Quantity Generators (CESQG) sites generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Five RCRA - CESQG sites were identified in the RCRA - CESQG database within ¼ mile radius of the Subject Property. All five RCRA - CESQG sites were identified upgradient to the Subject Property and none was listed with any violations.

Based upon the information in the RCRA - CESQG database AEASinc believes that the sites identified in the database should not impact upon the environmental quality of the Subject Property.

RCRA -NONGEN

RCRA - NONGEN sites do not presently generate hazardous waste unlike the RCRA small and large quantity generator sites as listed above. The RCRA - NONGEN database identified seventeen RCRA - NONGEN surrounding sites within a ¼ mile radius of the Subject Property. Fifteen RCRA - NONGEN surrounding sites were identified upgradient to the Subject Property. Only two upgradient RCRA - NONGEN surrounding sites was identified with violations.

The following are the information identified in the database for the upgradient RCRA - NONGEN surrounding sites with violations.

1)

Facility Name Address	Techtronics Ecological Corp 8 Walworth Street Brooklyn, NY	Map ID No. Distance (mile) Direction	M55 <0 - 1/8 (495 feet) southwest of subject property
<p>This property was identified upgradient to the Subject Property in the RCRA - NONGEN database. Information in the database revealed that this property was utilized for paint & coating manufacturing. Additional information in the database identified 19 violations associated with this property. Evaluation of the information in the RCRA - NONGEN database revealed that these violations occurred from 1985 through 1990. Areas of violation included Generator - Annual Reporting Requirements, non-financial records review, financial records review, focused compliance, permits and generator manifest. Compliance for all violations was met.</p> <p>This property was also identified in the FINDS and Manifest database.</p> <p>Based on the current regulatory compliance and separation distance, AEASinc does not believe that this CORRACTS site would impact the environmental quality of the Subject Property.</p>			

2)

Facility Name Address	Continental Technical Finishes 495 Flushing avenue Brooklyn, NY	Map ID No. Distance (mile) Direction	M58 <0 - 1/8 (509 feet) west of subject property
<p>This property was identified upgradient to the Subject Property in the RCRA - NONGEN database. Additional information in the database identified 2 violations associated with this upgradient property. Evaluation of the information in the RCRA – NONGEN database revealed that these violations occurred in 1984 and 1985. Areas of violation included Generators – general. Compliance for both violations was met in 1986.</p> <p>This property was also identified in the FINDS and Manifest database.</p> <p>Based on the current regulatory compliance and separation distance, AEASinc does not believe that this RCRA – NONGEN site would impact the environmental quality of the Subject Property.</p>			

AEASinc believes that none of the surrounding RCRA - NONGEN sites identified in the database listings should impact the environmental quality of the Subject Property.

SHWS

The State Hazardous Waste Sites records typically are the States’ equivalent to CERCLIS. A review of the SHWS database identified one surrounding property within a 1-mile radius of the Subject Property and upgradient. The SHWS site was identified as the Naval Station - Brooklyn Transfer Area. The information in the database revealed that the site was properly closed with no evidence of present or potential adverse impact and requires no further action.

Based upon the information in the database and crossgradient, AEASinc does not believe that the surrounding SHWS site should impact the environmental quality of the Subject Property

LTANKS

The Leaking Tanks (LTANKS) records contain an inventory of reported leaking storage tank incidents reported from April 1, 1986 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. Thirty-seven surrounding properties were identified in the LTanks database and thirty-three surrounding properties were identified in the Historical Leaking Tanks database within a ½ mile radius of the subject property. Thirty-six of the surrounding LTanks sites were identified upgradient to the Subject Property. Five upgradient sites listed in the LTanks database were identified with an open NYSDEC spill numbers.

The following are the details for the upgradient LTanks sites with open spill number:

1)

Facility Name Address	Marcy Houses 603 Park Avenue Brooklyn, NY	Map ID No. Distance (mile) Direction	V93 1/ 8 - 1/4 (897 feet) southeast of subject property
<p>The database report indicates that a tank failure occurred at this site on 07/07/1992, spilling number 2 fuel oil impacting groundwater. The NYSDEC spill number 9315457 was issued to the property. No additional information was provided.</p> <p>Based upon the information identified in the databases and the crossgradient location to the Subject Property, AEASinc does not believe that this site would impact the environmental quality of the subject property.</p>			

2)

Facility Name Address	Merit Gas Station 801 Bedford Avenue Brooklyn, NY	Map ID No. Distance (mile) Direction	129 1/4 - 1/2 (1,366 feet) southwest of subject property
<p>The database report indicates that a tank failure occurred at this site, on 08/25/1995, spilling approximately 50-gallons of gasoline impacting soil. The NYSDEC spill number 9506480 was issued to the property. Notes in the database report identified this site as a gasoline station and indicated that contaminated soil was encountered on the property. The source of the contamination is believed to be from a leak from previous tanks. Additional notes in the database also revealed that two sumps at this site was identified filled with gasoline which is believe to correlate to delivery at the station.</p> <p>Based upon the information identified in the databases, medium impacted and the crossgradient location to the Subject Property, AEASinc does not believe that this site would impact the environmental quality of the subject property.</p>			

3)

Facility Name Address	Gasteria 152 Union Avenue Brooklyn, NY	Map ID No. Distance (mile) Direction	145 1/4 - 1/2 (2,069 feet) northeast of subject property
<p>The database report indicates that a tank failure occurred at this site, on 01/22/2002, spilling gasoline impacting the groundwater. The NYSDEC spill number 0230038 was issued to the property. Notes in the database report identified this site as a gasoline station. The source of the contamination is believed to be from previous tanks removed from the property. Additional notes in the database revealed that some remedial efforts were performed and pending additional environmental remediation.</p> <p>Based upon the information identified in the databases and the crossgradient location to the Subject Property, AEASinc does not believe that this site would impact the environmental quality of the subject property.</p>			

4)

Facility Name Address	306 Rutledge Street Brooklyn, NY	Map ID No. Distance (mile) Direction	AG149 ¼ - ½ (2,117 feet) northeast of Subject Property
<p>The database report indicates that a tank failure occurred at this site on 05/09/1996, spilling petroleum product impacting soil. The NYSDEC spill number 9601941 was issued to the property. Information in the database report indicated that contamination was encountered during the excavation for the installation of new flooring. The source of the contamination is believed to be from a tank inside the building which has not been used in over ten years. Additional information in the database indicated that some remedial efforts were performed at the property and pending a work plan as requested by the NYSDEC. No additional information was provided in the database.</p> <p>Based upon the information identified in the databases, the medium impacted and the crossgradient location to the Subject Property, AEASinc does not believe that this site would impact the environmental quality of the subject property.</p>			

5)

Facility Name Address	Tompkins Houses 921 Myrtle Avenue Brooklyn, NY	Map ID No. Distance (mile) Direction	156 ¼ - ½ (2,494 feet) southeast of Subject Property
<p>The database report indicates that a tank failure occurred at this site on 10/06/1993, spilling #6 fuel oil impacting soil. The NYSDEC spill number 9308197 was issued to the property. The spill number status was identified as open. The database report indicated that two 30-gallon tanks installed in 1963 were removed in 1993 and replaced by one 30-gallon tank in the previous tank bed. Contaminated soil was removed during the excavation. A site investigation was performed in 1995 consisting of soil and groundwater analysis.</p> <p>Based upon the information identified in the databases and the crossgradient location to the Subject Property, AEASinc does not believe that this site would impact the environmental quality of the subject property.</p>			

None of the other sites listed in the LTanks database should impact upon the environmental quality of the Subject Property. The sites listed in the Historical LTanks database are a duplication of the sites listed in the LTanks database.

PBS

The NYSDEC's Petroleum Bulk Storage (PBS) program contains information on registered USTs and ASTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). A review of the PBS database identified eighteen surrounding sites in the UST database, twelve surrounding sites in the Historical UST database, nine surrounding sites in the AST database, one surrounding site in the CBS UST database and one surrounding site in the CBS AST database within ¼ mile radius of the Subject Property.

AEASinc do not believe that the surrounding PBS sites would impact upon the environmental quality of the Subject Property at this time.

NY SPILLS

The New York Department of Environmental Control collects data on spills that is required by one or more of the following: Article 12 of the Navigational Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1st, 1986, as well as spills occurring since this date. Eleven surrounding properties were identified in the NY Spills database and four surrounding properties were identified in the Historical NY Spills database within ¼ mile radius of the Subject Property. Eight NY Spills sites were identified upgradient to the Subject Property. Only one of the upgradient NY Spills sites was identified with an open NYSDEC spill number.

The following are the details for the upgradient NY Spills site with the open spill number:

Facility Name Address	Commercial 12 - 18 Walworth Street Brooklyn, NY	Map ID No. Distance (mile) Direction	M56 <0 - 1/8 (504 feet) southwest to subject property
-----------------------	---	--	---

The NY Spills database identified this property with an open spill number and upgradient to the Subject Property. Further review of the details listed in the database indicated that soil and groundwater results identified elevated levels of chlorinated substances on 12/21/2007. The NYSDEC spill number 0710116 was issued to the property. Additional information in the database stated that the property was utilized as a lacquer manufacturing plant. No information in reference to remediation or additional information was provided.

Based upon the information identified in the database AEASinc believes that the contamination on this property has not migrated off-site and therefore do not believe that this property would impact the environmental quality of the Subject Property.

None of the sites listed in the NY Spills database should impact upon the environmental quality of the subject property. The sites listed in the Historical NY Spills database are a duplication of the sites listed in the NY Spills database.

MANUFACTURED GAS PLANTS

This database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The

byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater impact. Five Manufactured Gas Plants were identified downgradient, within a 1-mile radius of the Subject Property. No violations or additional information was provided for these sites and therefore do not appear to be considered recognized environmental conditions with respect to the Subject Property at this time.

9 INTERVIEWS

9.1 INTERVIEW PARTIES

AEASinc made reasonable attempts to interview selected persons having knowledge of the uses and conditions of the site, past and present. A list of the persons that AEASinc interviewed and attempted to interview, along with our interpretations is presented in Section 9.2.

Summary		
Name	Affiliation	Role
Mr. Robbi Pollack	533 – 537 Flushing Avenue Brooklyn, NY	Site Contact

Mr. Robbi Pollack Site contact, arranged for AEASinc's access to the Subject Property to perform the site reconnaissance. The Site reconnaissance was performed on December 3rd, 2008.

Mr. Pollack did not have any additional environmental information for the Subject Property. No other information or copies of previous environmental studies for the Subject Property was provided to AEASinc.

9.2 INTERVIEW FINDINGS

AEASinc did not identified evidence of RECs in the information obtained from the interviews.

10 OTHER ENVIRONMENTAL ISSUES

Assessment of the property in regard to the presence of asbestos-containing materials, lead-based paint, mold and lead in drinking water and radon was not performed by AEASinc.

The information sources that AEASinc used, including published material, material obtained from commercial sources, from other sources, or provided to us through questionnaires is cited as that information presented in the report. Some of this information or excerpts thereof are also appended

11 CONCLUSIONS

American Environmental Assessment & Solutions, Inc (AEASinc) has performed a Phase I ESA of the property located at 533 – 537 Flushing Avenue in Brooklyn, New York in conformance with the scope and limitations of ASTM Practice E 1527-05. Based upon the findings of the Phase I ESA, the following Recognized Environmental Conditions have been identified in connection with the Site.

- The Subject Property was identified with the Little “E” Designation for “Hazmat / Noise / Air”.

Other than the item listed above, no other Recognized Environmental Concerns were identified in connection with the Subject Property.

12 RECOMMENDATIONS

Based upon the information provided for and contained in this Phase I ESA, AEASinc understands that propose future development of the Site may require excavation of on-site soil. AEASinc recommends the following actions to support the potential redevelopment of the Site and to satisfy the NYCDEP requirements.

- A subsurface investigation should be conducted to support redevelopment of the Site and should be performed in accordance to the Little "E" Designation requirements as needed for the Site.

13 CREDENTIALS

In accordance with ASTM E 1527-05, the credentials of those personnel directly involved with the production of the Phase I ESA are provided with this report.

14 REFERENCES

The information sources that AEASinc used, including published material, material obtained from commercial sources, from other sources, or provided to us through questionnaires is cited as that information is presented in the report. Some of this information or excerpts thereof are listed below:

1. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E 1527-05, American Society for Testing and Materials, West Conshohocken, PA.
2. Principals of Groundwater Engineering, William C. Walton, Lewis Publishers, Inc., 1991.
3. Soil Survey of New York County, New York, Soil Conservation Service, United States Department of Agriculture in cooperation with Cornell University Agricultural Experiment Station, February 1987.
4. The Long Island Ground Water Pollution Study, New York State Department of Environmental Conservation, 1972.
5. *Geochemical traverse across Cameron's Line, Boro Hall Park, Bronx, New York*, Cadmus, D., Hodgson, R., Gatto, L.M., and Puffer, J.H., Geology Department, Rutgers University, Newark, NJ.
6. *Drainage History of the New York City Region*, Sanders, John E., Geology Department, Hofstra University.
7. *EDR Environmental Data Resources*, - Sanborn Fire Insurance Maps, Midford, Connecticut
8. *EDR Environmental Data Resources*, - City Directory Abstract, Midford Connecticut
9. *EDR Environmental Data Resources*, - Radius Map, Midford, Connecticut
10. New York City Department of City Planning, Zoning Handbook, dated January 2006.
11. Federal Emergency Management Agency, "Flood Insurance Rate Map, Panel No. 360497 0204F", effective date July 5th, 1994.
12. U.S. Geological Survey 7.5 Minute Series Topographical Map, Brooklyn, NY, dated 1967, Photorevised 1995.
13. New York City Department of Buildings, Building Information System.
14. New York City Department of Finance, Office of the City Registry.

ATTACHMENT B
SOIL BORING LOGS

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B1 Boring Log

Location: Boring performed in northern most corner of lot		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: TAG0819	Address: 533-537 Flushing Avenue, Brooklyn, NY	Date	Ground Elevation
Drilling Company: LVS, Inc.		DTW	Well Specifications
Date Started: 2/23/2009	Date Completed: 2/23/2009	13ft	None
Completion Depth: 16 feet	Field Technician Charles Sosik		

B1 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Reco- very (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	18			Brown silty sand with fill material (brick/concrete/wood) <i>*Sample collected B1 0-2'</i>
	4				
	to	48			Greyish/brown silty sand with fill material (brick/concrete/wood)
	8				
	to	48			Greyish silty sand with some brick
12					
to	48			12-14' - Greyish silty sand 14-16' - Grey silty clay <i>*Sample collected B1 14-16'</i>	
16					<u><i>*GW sample collected (B1 GW)</i></u>

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B2 Boring Log

Location: Boring performed in center region of lot		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: TAG0819	Address: 533-537 Flushing Avenue, Brooklyn, NY	Date	Ground Elevation
Drilling Company: LVS, Inc.		DTW	Well Specifications
Date Started: 2/23/2009	Method: Geoprobe	13ft	None
Completion Depth: 16 feet	Date Completed: 2/23/2009		
	Field Technician Charles Sosik		

B2 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Reco- very (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	48			Brown silty sand with fill material (brick/concrete/wood) <i>*Sample collected B2 0-2'</i>
	4				
	to	48			Greyish/brown silty sand with fill material (brick/concrete/wood)
	8				
	to	18			Greyish silty sand
12					
to	12				12-14' - Greyish silty sand 14-16' - Grey silty clay <i>*Sample collected B2 14-16'</i>
16					

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B3 Boring Log

Location: Boring performed in southwest corner of the lot		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: TAG0819	Address: 533-537 Flushing Avenue, Brooklyn, NY	Date	Ground Elevation
Drilling Company: LVS, Inc.		DTW	Well Specifications
Date Started: 2/23/2009	Date Completed: 2/23/2009	13ft	None
Completion Depth: 16 feet	Field Technician Charles Sosik		

B3 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Reco- very (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	12			Brown silty sand with fill material (brick/concrete/wood) <i>* Sample collected B3 0-2'</i>
	4				
	to	48			Greyish/brown silty sand with fill material (brick/concrete/wood)
	8				
	to	18			Greyish silty sand
12					
to	12				12-14' - Greyish silty sand 14-16' - Grey silty clay <i>*Sample collected B3 14-16'</i>
16					

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B4 Boring Log

Location: Boring performed in the southeast corner of the lot		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: TAG0819	Address: 533-537 Flushing Avenue, Brooklyn, NY	Date	Ground Elevation
Drilling Company: LVS, Inc.		DTW	Well Specifications
Date Started: 2/23/2009	Date Completed: 2/23/2009	13ft	None
Completion Depth: 18 feet	Field Technician Charles Sosik		

B4 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Reco- very (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	18			Light tan silty sand with fill material (brick/concrete/wood) <i>* Sample collected B4 0-2'</i>
	4				
	to	48			Greyish/brown silty sand with fill material (brick/concrete/wood)
	8				
	to	48			Greyish silty sand
	12				
to	48			12-14' - Greyish silty sand 14-16' - Grey silty clay <i>*Sample collected - B4 14-16'</i>	
16					
to	24			Grey silty clay <i>*GW sample collected (B4 GW)</i>	
18					

ATTACHMENT C
GROUNDWATER SAMPLING LOGS

GROUNDWATER PURGE / SAMPLE LOGS



ENVIRONMENTAL BUSINESS CONSULTANTS

Site Address: 533-537 Flushing Avenue, Brooklyn, NY

Well I.D.: MW1

Date: 4/3/2014

Well Depth (from TOC): 16

Equipment: Peristaltic Pump

Static Water Level (from TOC): 13

Field Personnel: Kevin Brussee

Height of Water in Well: 3

Gallons of Water per Well Volume: 0.12

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	12:05	400ml/min	0					turbid
2.00	12:07	400ml/min	0.22					turbid
4.00	12:09	400ml/min	0.44					turbid
6.00	12:11	400ml/min	0.66					turbid
8.00	12:13	400ml/min	0.88					clear
10.00	12:15	400ml/min	1.1					clear
	12:20							Collected Samples

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS



ENVIRONMENTAL BUSINESS CONSULTANTS

Site Address: 533-537 Flushing Avenue, Brooklyn, NY

Well I.D.: MW2

Date: 4/3/2014

Well Depth (from TOC): 16

Equipment: Peristaltic Pump

Static Water Level (from TOC): 13

Field Personnel: Kevin Brussee

Height of Water in Well: 3

Gallons of Water per Well Volume: 0.12

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	12:37	400ml/min	0					turbid
2.00	12:39	400ml/min	0.22					turbid
4.00	12:41	400ml/min	0.44					turbid
6.00	12:43	400ml/min	0.66					turbid
8.00	12:45	400ml/min	0.88					clear
10.00	12:47	400ml/min	1.1					clear
	12:50							Collected Samples

Note 400 ml = 0.11 gallons

ATTACHMENT D
SOIL GAS SAMPLING LOGS



CHAIN OF CUSTODY RECORD AIR ANALYSES

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-1102

Pg. 1 of 1
 Data Delivery: Fax # _____ Email: KB.USSE@EBCINC.NY.COM
 400
 110

Report to: EBC Invoice to: EBC Project Name: _____
 Address: 1808 MIDDLE COUNTRY RD FIDES, NY 11961 Address: 535 FLUSHING Location: _____
 Project Mgr: KEVIN BRUSSEE P.O. # _____ State: NY State: _____
 Phone #: (631) 504-6000 Quote # _____ Sampled by: KB

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	LAB USE ONLY			Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End (" Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	ANALYSES		Is Canister Returned Unused? Y/N
				Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure (" Hg)	Flow Regulator ID #										TO-14	TO-15	
28182	S61	13641	6	30		4988V-3	1153	1330	4/3	30	7	7					Y	2
28183	S62	13637	6	30		4991V-5	1135	1335	4/3	30	7	7					Y	2
28184	S63	172	6	30		4992V-4	1144	1337	4/3	30	6	6					Y	2

Relinquished by: [Signature] Date: 4-14-14 8:30
 Accepted by: [Signature] Date: 4-14-14 15:20
 Criteria Requested: _____ Deliverable: _____
 RCP MCP Other:
 State where samples collected: NY GISKey

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
 I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as typed on the back of this document.
 Signature: [Signature] Date: 4/3/14

ATTACHMENT E
LABORATORY REPORTS IN DIGITAL
FORMAT

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

**Environmental Business
Consultants
1808 Middle Country Rd.
Ridge, NY 11961
Attention: C. Sosik**

Report Date: 2/27/2009

Re: Client Project ID: 535 Flushing Ave., Brooklyn, NY

York Project No.: 09020693

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854



Report Date: 2/27/2009
 Client Project ID: 535 Flushing Ave., Brooklyn, NY
 York Project No.: 09020693

Environmental Business
 Consultants
 1808 Middle Country Rd.
 Ridge, NY 11961
 Attention: C. Sosik

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 02/24/09. The project was identified as your project "535 Flushing Ave., Brooklyn, 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 NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			B1 0-2'		B1 14-16'	
York Sample ID			09020693-01		09020693-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Pesticides, 8081 List	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			Not detected	16.0	Not detected	16.0
4,4'-DDE			Not detected	16.0	Not detected	16.0
4,4'-DDT			Not detected	16.0	Not detected	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			26.3	20.0	Not detected	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			4.30	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00

YORK

Client Sample ID			B1 0-2'		B1 14-16'	
York Sample ID			09020693-01		09020693-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	100	Not detected	100
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10

YORK

Client Sample ID			B1 0-2'		B1 14-16'	
York Sample ID			09020693-01		09020693-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
BNA, 8270 List	SW846-8270C	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4,5-Trichlorophenol			Not detected	165	Not detected	165
2,4,6-Trichlorophenol			Not detected	165	Not detected	165
2,4-Dichlorophenol			Not detected	165	Not detected	165
2,4-Dimethylphenol			Not detected	165	Not detected	165
2,4-Dinitrophenol			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Chlorophenol			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Methylphenol			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
2-Nitrophenol			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Methylphenol			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4,6-Dinitro-2-methylphenol			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloro-3-methyl phenol			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Methylphenol			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
4-Nitrophenol			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Aniline			Not detected	165	Not detected	165
Anthracene			180	165	Not detected	165
Ben-zidine			Not detected	165	Not detected	165
Benzo(a)anthracene			370	165	Not detected	165
Benzo(a)pyrene			350	165	Not detected	165
Benzo(b)fluoranthene			280	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			290	165	Not detected	165

YORK

Client Sample ID			B1 0-2'		B1 14-16'	
York Sample ID			09020693-01		09020693-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl alcohol			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			190	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Chrysene			390	165	Not detected	165
Dibenz(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			890	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Pentachlorophenol			Not detected	165	Not detected	165
Phenanthrene			960	165	Not detected	165
Phenol			Not detected	165	Not detected	165
Pyrene			750	165	Not detected	165
Pyridine			Not detected	165	Not detected	165
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
Metals, Target Analyte List (TAL)	SW846-6010	mg/kg	---	---	---	---
Aluminum			4710	1.00	2250	1.00
Antimony			3.77	1.00	Not detected	1.00
Arsenic			5.65	1.00	Not detected	1.00
Barium			98.4	1.00	10.9	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			115	0.500	Not detected	0.500
Calcium			20500	2.00	500	2.00
Chromium			10.8	0.500	4.64	0.500
Cobalt			3.52	1.00	1.24	1.00
Copper			151	1.00	2.93	1.00
Iron			10900	1.00	2310	1.00
Lead			232	1.00	1.79	1.00

YORK

Client Sample ID			B1 0-2'		B1 14-16'	
York Sample ID			09020693-01		09020693-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Magnesium			4320	2.00	750	2.00
Manganese			172	1.00	25.9	1.00
Nickel			32.7	1.00	5.07	1.00
Potassium			642	3.00	235	3.00
Selenium			Not detected	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			159	5.00	42.3	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			14.8	2.00	3.09	2.00
Zinc			389	2.00	10.8	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Client Sample ID			B2 0-2'		B2 14-16'	
York Sample ID			09020693-03		09020693-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Pesticides, 8081 List	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			Not detected	16.0	Not detected	16.0
4,4'-DDE			Not detected	16.0	Not detected	16.0
4,4'-DDT			47.9	16.0	Not detected	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			176	20.0	Not detected	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			6.66	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	100	Not detected	100
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10

YORK

Client Sample ID			B2 0-2'		B2 14-16'	
York Sample ID			09020693-03		09020693-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
BNA, 8270 List	SW846-8270C	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165

YORK

Client Sample ID			B2 0-2'		B2 14-16'	
York Sample ID			09020693-03		09020693-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4,5-Trichlorophenol			Not detected	165	Not detected	165
2,4,6-Trichlorophenol			Not detected	165	Not detected	165
2,4-Dichlorophenol			Not detected	165	Not detected	165
2,4-Dimethylphenol			Not detected	165	Not detected	165
2,4-Dinitrophenol			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Chlorophenol			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Methylphenol			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
2-Nitrophenol			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Methylphenol			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4,6-Dinitro-2-methylphenol			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloro-3-methyl phenol			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Methylphenol			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
4-Nitrophenol			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Aniline			Not detected	165	Not detected	165
Anthracene			180	165	Not detected	165
Benzidine			Not detected	165	Not detected	165
Benzo(a)anthracene			330	165	Not detected	165
Benzo(a)pyrene			420	165	Not detected	165
Benzo(b)fluoranthene			380	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			350	165	Not detected	165
Benzyl alcohol			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			210	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Chrysene			440	165	Not detected	165
Dibenz(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			830	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165

YORK

Client Sample ID			B2 0-2'		B2 14-16'	
York Sample ID			09020693-03		09020693-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Pentachlorophenol			Not detected	165	Not detected	165
Phenanthrene			800	165	Not detected	165
Phenol			Not detected	165	Not detected	165
Pyrene			690	165	Not detected	165
Pyridine			Not detected	165	Not detected	165
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
Metals, Target Analyte List (TAL)	SW846-6010	mg/kg	---	---	---	---
Aluminum			5390	1.00	12600	1.00
Antimony			1.98	1.00	Not detected	1.00
Arsenic			41.0	1.00	Not detected	1.00
Barium			375	1.00	77.7	1.00
Beryllium			Not detected	0.500	0.67	0.500
Cadmium			57.2	0.500	1.14	0.500
Calcium			39100	2.00	1060	2.00
Chromium			14.6	0.500	38.4	0.500
Cobalt			4.08	1.00	13.3	1.00
Copper			97.7	1.00	43.4	1.00
Iron			9600	1.00	18100	1.00
Lead			297	1.00	10.7	1.00
Magnesium			3440	2.00	5120	2.00
Manganese			230	1.00	151	1.00
Nickel			22.3	1.00	26.4	1.00
Potassium			956	3.00	2340	3.00
Selenium			1.80	1.00	1.09	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			362	5.00	132	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			19.0	2.00	37.2	2.00
Zinc			320	2.00	72.9	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

YORK

Client Sample ID			B3 0-2'		B3 14-16'	
York Sample ID			09020693-05		09020693-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Pesticides, 8081 List	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			Not detected	16.0	Not detected	16.0
4,4'-DDE			21.2	16.0	Not detected	16.0
4,4'-DDT			183	16.0	Not detected	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			92.4	20.0	Not detected	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			15.3	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	100	Not detected	100
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10

YORK

Client Sample ID			B3 0-2'		B3 14-16'	
York Sample ID			09020693-05		09020693-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
BNA, 8270 List	SW846-8270C	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4,5-Trichlorophenol			Not detected	165	Not detected	165
2,4,6-Trichlorophenol			Not detected	165	Not detected	165
2,4-Dichlorophenol			Not detected	165	Not detected	165
2,4-Dimethylphenol			Not detected	165	Not detected	165
2,4-Dinitrophenol			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Chlorophenol			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Methylphenol			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
2-Nitrophenol			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Methylphenol			Not detected	165	Not detected	165

YORK

Client Sample ID			B3 0-2'		B3 14-16'	
York Sample ID			09020693-05		09020693-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
3-Nitroaniline			Not detected	165	Not detected	165
4,6-Dinitro-2-methylphenol			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloro-3-methyl phenol			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Methylphenol			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
4-Nitrophenol			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Aniline			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzidine			Not detected	165	Not detected	165
Benzo(a)anthracene			430	165	Not detected	165
Benzo(a)pyrene			520	165	Not detected	165
Benzo(b)fluoranthene			460	165	Not detected	165
Benzo(g,h,i)perylene			200	165	Not detected	165
Benzo(k)fluoranthene			440	165	Not detected	165
Benzyl alcohol			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			440	165	Not detected	165
Butyl benzyl phthalate			670	165	Not detected	165
Chrysene			490	165	Not detected	165
Dibenz(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			860	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			220	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Pentachlorophenol			Not detected	165	Not detected	165
Phenanthrene			650	165	Not detected	165
Phenol			Not detected	165	Not detected	165
Pyrene			710	165	Not detected	165
Pyridine			Not detected	165	Not detected	165

YORK

Client Sample ID			B3 0-2'		B3 14-16'	
York Sample ID			09020693-05		09020693-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
Metals, Target Analyte List (TAL)	SW846-6010	mg/kg	---	---	---	---
Aluminum			4690	1.00	5490	1.00
Antimony			Not detected	1.00	Not detected	1.00
Arsenic			42.1	1.00	Not detected	1.00
Barium			253	1.00	28.8	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			2.08	0.500	Not detected	0.500
Calcium			42000	2.00	771	2.00
Chromium			11.3	0.500	12.7	0.500
Cobalt			3.53	1.00	5.33	1.00
Copper			27.7	1.00	8.17	1.00
Iron			8530	1.00	7470	1.00
Lead			808	1.00	4.23	1.00
Magnesium			2200	2.00	1950	2.00
Manganese			179	1.00	52.0	1.00
Nickel			10.0	1.00	11.2	1.00
Potassium			861	3.00	741	3.00
Selenium			1.16	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			354	5.00	70.8	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			13.9	2.00	16.9	2.00
Zinc			168	2.00	26.3	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Client Sample ID			B4 0-2'		B4 14-16'	
York Sample ID			09020693-07		09020693-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Pesticides, 8081 List	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			24.3	16.0	Not detected	16.0
4,4'-DDE			40.7	16.0	Not detected	16.0
4,4'-DDT			579	16.0	Not detected	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			45.6	20.0	Not detected	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			3.62	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0

YORK

Client Sample ID			B4 0-2'		B4 14-16'	
York Sample ID			09020693-07		09020693-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	100	Not detected	100
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10

YORK

Client Sample ID			B4 0-2'		B4 14-16'	
York Sample ID			09020693-07		09020693-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			49	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
BNA, 8270 List	SW846-8270C	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4,5-Trichlorophenol			Not detected	165	Not detected	165
2,4,6-Trichlorophenol			Not detected	165	Not detected	165
2,4-Dichlorophenol			Not detected	165	Not detected	165
2,4-Dimethylphenol			Not detected	165	Not detected	165
2,4-Dinitrophenol			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Chlorophenol			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Methylphenol			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
2-Nitrophenol			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Methylphenol			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4,6-Dinitro-2-methylphenol			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloro-3-methyl phenol			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Methylphenol			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
4-Nitrophenol			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Aniline			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzidine			Not detected	165	Not detected	165

YORK

Client Sample ID			B4 0-2'		B4 14-16'	
York Sample ID			09020693-07		09020693-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzo(a)anthracene			240	165	Not detected	165
Benzo(a)pyrene			180	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			200	165	Not detected	165
Benzyl alcohol			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Chrysene			210	165	Not detected	165
Dibenz(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			490	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Pentachlorophenol			Not detected	165	Not detected	165
Phenanthrene			540	165	Not detected	165
Phenol			Not detected	165	Not detected	165
Pyrene			420	165	Not detected	165
Pyridine			Not detected	165	Not detected	165
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
Metals, Target Analyte List (TAL)	SW846-6010	mg/kg	---	---	---	---
Aluminum			4920	1.00	9110	1.00
Antimony			Not detected	1.00	Not detected	1.00
Arsenic			29.5	1.00	Not detected	1.00
Barium			256	1.00	68.4	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			8.72	0.500	Not detected	0.500
Calcium			35800	2.00	1620	2.00

YORK

Client Sample ID			B4 0-2'		B4 14-16'	
York Sample ID			09020693-07		09020693-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chromium			11.6	0.500	25.4	0.500
Cobalt			3.37	1.00	7.24	1.00
Copper			32.0	1.00	15.4	1.00
Iron			8810	1.00	21100	1.00
Lead			227	1.00	7.58	1.00
Magnesium			2540	2.00	4210	2.00
Manganese			171	1.00	217	1.00
Nickel			12.3	1.00	20.6	1.00
Potassium			1030	3.00	2080	3.00
Selenium			1.16	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			392	5.00	172	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			15.4	2.00	30.7	2.00
Zinc			280	2.00	47.5	2.00
Mercury	SW846-7471	mg/kg	Not detected	0.10	Not detected	0.10

Client Sample ID			B1 GW		B4 GW	
York Sample ID			09020693-09		09020693-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Pesticides, 8081 List	SW846-3510C/8081	ug/L	---	---	---	---
4,4'-DDD			Not detected	0.0528	Not detected	0.0576
4,4'-DDE			Not detected	0.0528	Not detected	0.0576
4,4'-DDT			Not detected	0.0528	Not detected	0.0576
Aldrin			Not detected	0.0264	Not detected	0.0288
alpha-BHC			Not detected	0.0264	Not detected	0.0288
beta-BHC			Not detected	0.0264	Not detected	0.0288
Chlordane			Not detected	0.110	Not detected	0.120
delta-BHC			Not detected	0.0264	Not detected	0.0288
Dieldrin			Not detected	0.011	Not detected	0.012
Endosulfan I			Not detected	0.0264	Not detected	0.0288
Endosulfan II			Not detected	0.0528	Not detected	0.0576
Endosulfan sulfate			Not detected	0.0528	Not detected	0.0576
Endrin			Not detected	0.0528	Not detected	0.0576
Endrin aldehyde			Not detected	0.0528	Not detected	0.0576
gamma-BHC (Lindane)			Not detected	0.0264	Not detected	0.0288
Heptachlor			Not detected	0.0264	Not detected	0.0288
Heptachlor epoxide			Not detected	0.0264	Not detected	0.0288
Methoxychlor			Not detected	0.264	Not detected	0.288
Toxaphene			Not detected	1.10	Not detected	1.20
Volatiles, 8260 List	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			B1 GW		B4 GW	
York Sample ID			09020693-09		09020693-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0	Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	5.0
1,2-Dibromoethane			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichloropropane			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
2,2-Dichloropropane			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromochloromethane			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	5.0	Not detected	5.0
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	5.0	Not detected	5.0
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Hexachlorobutadiene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
MTBE			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	Not detected	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	5.0	Not detected	5.0
p- & m-Xylenes			Not detected	5.0	Not detected	5.0
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
Styrene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			B1 GW		B4 GW	
York Sample ID			09020693-09		09020693-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Vinyl chloride			Not detected	5.0	Not detected	5.0
BNA, 8270 List	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	14	Not detected	9.1
1,2-Dichlorobenzene			Not detected	14	Not detected	9.1
1,3-Dichlorobenzene			Not detected	14	Not detected	9.1
1,4-Dichlorobenzene			Not detected	14	Not detected	9.1
2,4,5-Trichlorophenol			Not detected	14	Not detected	9.1
2,4,6-Trichlorophenol			Not detected	14	Not detected	9.1
2,4-Dichlorophenol			Not detected	14	Not detected	9.1
2,4-Dimethylphenol			Not detected	14	Not detected	9.1
2,4-Dinitrophenol			Not detected	14	Not detected	9.1
2,4-Dinitrotoluene			Not detected	14	Not detected	9.1
2,6-Dinitrotoluene			Not detected	14	Not detected	9.1
2-Chloronaphthalene			Not detected	14	Not detected	9.1
2-Chlorophenol			Not detected	14	Not detected	9.1
2-Methylnaphthalene			Not detected	14	Not detected	9.1
2-Methylphenol			Not detected	14	Not detected	9.1
2-Nitroaniline			Not detected	14	Not detected	9.1
2-Nitrophenol			Not detected	14	Not detected	9.1
3,3'-Dichlorobenzidine			Not detected	14	Not detected	9.1
3-Methylphenol			Not detected	14	Not detected	9.1
3-Nitroaniline			Not detected	14	Not detected	9.1
4,6-Dinitro-2-methylphenol			Not detected	14	Not detected	9.1
4-Bromophenyl phenyl ether			Not detected	14	Not detected	9.1
4-Chloro-3-methyl phenol			Not detected	14	Not detected	9.1
4-Chloroaniline			Not detected	14	Not detected	9.1
4-Chlorophenyl phenyl ether			Not detected	14	Not detected	9.1
4-Methylphenol			Not detected	14	Not detected	9.1
4-Nitroaniline			Not detected	14	Not detected	9.1
4-Nitrophenol			Not detected	14	Not detected	9.1
Acenaphthene			Not detected	14	Not detected	9.1
Acenaphthylene			Not detected	14	Not detected	9.1
Aniline			Not detected	14	Not detected	9.1
Anthracene			Not detected	14	Not detected	9.1
Benzidine			Not detected	14	Not detected	9.1
Benzo(a)anthracene			Not detected	14	Not detected	9.1
Benzo(a)pyrene			Not detected	14	Not detected	9.1
Benzo(b)fluoranthene			Not detected	14	Not detected	9.1
Benzo(g,h,i)perylene			Not detected	14	Not detected	9.1
Benzo(k)fluoranthene			Not detected	14	Not detected	9.1
Benzyl alcohol			Not detected	14	Not detected	9.1
Bis(2-chloroethoxy)methane			Not detected	14	Not detected	9.1
Bis(2-chloroethyl)ether			Not detected	14	Not detected	9.1
Bis(2-chloroisopropyl)ether			Not detected	14	Not detected	9.1
Bis(2-ethylhexyl)phthalate			Not detected	14	Not detected	9.1
Butyl benzyl phthalate			Not detected	14	Not detected	9.1
Chrysene			Not detected	14	Not detected	9.1
Dibenz(a,h)anthracene			Not detected	14	Not detected	9.1
Dibenzofuran			Not detected	14	Not detected	9.1
Diethylphthalate			Not detected	14	Not detected	9.1
Dimethylphthalate			Not detected	14	Not detected	9.1

YORK

Client Sample ID			B1 GW		B4 GW	
York Sample ID			09020693-09		09020693-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Di-n-butylphthalate			Not detected	14	Not detected	9.1
Di-n-octylphthalate			Not detected	14	Not detected	9.1
Fluoranthene			Not detected	14	Not detected	9.1
Fluorene			Not detected	14	Not detected	9.1
Hexachlorobenzene			Not detected	14	Not detected	9.1
Hexachlorobutadiene			Not detected	14	Not detected	9.1
Hexachlorocyclopentadiene			Not detected	14	Not detected	9.1
Hexachloroethane			Not detected	14	Not detected	9.1
Indeno(1,2,3-cd)pyrene			Not detected	14	Not detected	9.1
Isophorone			Not detected	14	Not detected	9.1
Naphthalene			Not detected	14	Not detected	9.1
Nitrobenzene			Not detected	14	Not detected	9.1
N-Nitrosodi-n-propylamine			Not detected	14	Not detected	9.1
N-Nitrosodiphenylamine			Not detected	14	Not detected	9.1
Pentachlorophenol			Not detected	14	Not detected	9.1
Phenanthrene			Not detected	14	Not detected	9.1
Phenol			Not detected	14	Not detected	9.1
Pyrene			Not detected	14	Not detected	9.1
Pyridine			Not detected	14	Not detected	9.1
PCB	SW846-3510C/8082	ug/L	---	---	---	---
PCB 1016			Not detected	0.55	Not detected	0.60
PCB 1221			Not detected	0.55	Not detected	0.60
PCB 1232			Not detected	0.55	Not detected	0.60
PCB 1242			Not detected	0.55	Not detected	0.60
PCB 1248			Not detected	0.55	Not detected	0.60
PCB 1254			Not detected	0.55	Not detected	0.60
PCB 1260			Not detected	0.55	Not detected	0.60
PCB, Total			Not detected	0.55	Not detected	0.60
Metals, Target Analyte List Dissolved	SW846-6010	ug/L	---	---	---	---
Aluminum			11.0	5.0	9.70	5.0
Antimony			Not detected	5.0	Not detected	5.0
Arsenic			Not detected	10.0	Not detected	10.0
Barium			46.9	10.0	104	10.0
Beryllium			Not detected	1.0	Not detected	1.0
Cadmium			Not detected	3.0	Not detected	3.0
Calcium			149000	20.0	562000	20.0
Chromium			8.25	5.0	9.51	5.0
Cobalt			Not detected	5.0	5.19	5.0
Copper			Not detected	5.0	Not detected	5.0
Iron			Not detected	5.0	13.1	5.0
Lead			Not detected	3.0	6.02	3.0
Magnesium			11900	10.0	63.3	10.0
Manganese			296	5.0	2000	5.0
Nickel			7.67	5.0	26.8	5.0
Potassium			12000	30.0	23900	30.0
Selenium			Not detected	10.0	Not detected	10.0
Silver			Not detected	5.0	Not detected	5.0
Sodium			11200	50.0	126000	50.0
Thallium			Not detected	10.0	Not detected	10.0
Vanadium			Not detected	10.0	Not detected	10.0
Zinc			Not detected	20.0	Not detected	20.0

YORK

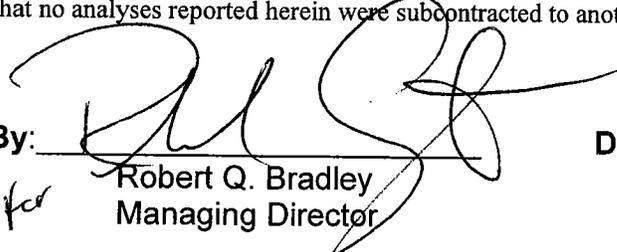
Client Sample ID			B1 GW		B4 GW	
York Sample ID			09020693-09		09020693-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Mercury, Dissolved	SW-846-7470	mg/L	Not detected	0.0002	Not detected	0.0002
Metals, Target Analyte List (TAL)	SW846-6010	ug/L	---	---	---	---
Aluminum			21600	5.0	46700	5.0
Antimony			Not detected	5.0	5.46	5.0
Arsenic			25.5	10.0	452	10.0
Barium			1170	10.0	460	10.0
Beryllium			9.11	1.0	10.1	1.0
Cadmium			33.1	3.0	50.2	3.0
Calcium			303000	20.0	1590000	20.0
Chromium			231	5.0	219	5.0
Cobalt			39.3	5.0	85.1	5.0
Copper			321	5.0	499	5.0
Iron			68900	5.0	58800	5.0
Lead			390	3.0	6620	3.0
Magnesium			31600	10.0	190000	10.0
Manganese			2490	5.0	9580	5.0
Nickel			166	5.0	195	5.0
Potassium			23300	30.0	38900	30.0
Selenium			Not detected	10.0	18.8	10.0
Silver			Not detected	5.0	Not detected	5.0
Sodium			11600	50.0	128000	50.0
Thallium			Not detected	10.0	Not detected	10.0
Vanadium			182	10.0	377	10.0
Zinc			1330	20.0	3450	20.0
Mercury	SW846-7470	mg/L	0.0020	0.0020	0.0316	0.0020

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 09020693

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for 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.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By:



for Robert Q. Bradley
Managing Director

Date: 2/27/2009

YORK

Field Chain-of-Custody Record

York Project No.: 09020693		Project ID/No. 535 Flashing Ave. Brooklyn, NY		Invoice to:		Report to: C. Sosik		Company Name FBC		Name (printed) Charles Sosik	
Samples Collected by (signature) <i>Charles Sosik</i>		Analyses Requested		Sample Matrix		Date Sampled		Location/ID		Container Desc.	
		VOCs (8260) SVOCs (8270) (BNA) Pest/PCBS, TAL metals		Water Soil Air Other		2/23/09		B1 0-2'		(1) 8oz JAR 4oz JAR	
								B1 14-16'			
								B2 0-2'			
								B2 14-16'			
								B3 0-2'			
								B3 14-16'			
								B4 0-2'			
								B4 14-16'			
								B1 Gw		VOCs (8260) SVOCs (8270) (BNA), Pest/PCBS TAL metals Filtered + new Filtered	
								B4 Gw		" " " "	
Temperature upon receipt at Lab 36 °C		Chain-of-Custody Record		Samples Relinquished by <i>Charles Sosik</i>		Date/Time 2/24/09 1:57		Samples Relinquished by <i>Charles Sosik</i>		Date/Time 2/24/09 1:59 PM	
Comments/Special Instructions C1412 "E" site		Turn-Around Time Requested- Specify Date Expected if RUSH Requested: DATE DUE FOR RUSH:		Samples received by <i>Charles Sosik</i>		Date/Time 2/24/09 1:57		Samples received in LAB by <i>Charles Sosik</i>		Date/Time 2/24/09 1:59 PM	
								STANDARD		RUSH(Define)	



Tuesday, April 15, 2014

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 535 FLUSHING
Sample ID#s: BG28185 - BG28188

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
 Environmental Business Consultants
 1808 Middle Country Rd
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER
 Location Code: EBC
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: KB
 Received by: SW
 Analyzed by: see "By" below

Date

04/03/14
 04/04/14

Time

0:00
 15:20

Laboratory Data

SDG ID: GBG28185
 Phoenix ID: BG28185

Project ID: 535 FLUSHING
 Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.005	0.005	0.0006	mg/L	04/07/14	EK	SW6010
Aluminum	0.447	0.010	0.0024	mg/L	04/07/14	EK	SW6010
Arsenic - LDL	< 0.004	0.004	0.001	mg/L	04/07/14	EK	SW6010
Barium	0.089	0.010	0.0003	mg/L	04/07/14	EK	SW6010
Beryllium	< 0.001	0.001	0.001	mg/L	04/07/14	EK	SW6010
Calcium	490	0.10	0.030	mg/L	04/07/14	EK	SW6010
Cadmium	< 0.004	0.004	0.0002	mg/L	04/07/14	EK	SW6010
Cobalt	< 0.005	0.005	0.0003	mg/L	04/07/14	EK	SW6010
Chromium	0.001	0.001	0.0009	mg/L	04/07/14	EK	SW6010
Copper	0.029	0.005	0.001	mg/L	04/07/14	EK	SW6010
Silver (Dissolved)	< 0.005	0.005	0.0006	mg/L	04/04/14	EK	SW6010
Aluminum (Dissolved)	0.16	0.01	0.0026	mg/L	04/04/14	EK	SW6010
Arsenic, (Dissolved)	0.005	0.003	0.001	mg/L	04/04/14	EK	SW6010
Barium (Dissolved)	0.053	0.011	0.0003	mg/L	04/04/14	EK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	04/04/14	EK	SW6010
Calcium (Dissolved)	495	0.11	0.032	mg/L	04/07/14	EK	SW6010
Cadmium (Dissolved)	< 0.004	0.004	0.0002	mg/L	04/04/14	EK	SW6010
Cobalt, (Dissolved)	< 0.005	0.005	0.0003	mg/L	04/04/14	EK	SW6010
Chromium (Dissolved)	0.001	0.001	0.0010	mg/L	04/04/14	EK	SW6010
Copper, (Dissolved)	0.029	0.005	0.001	mg/L	04/04/14	EK	SW6010
Iron, (Dissolved)	0.03	0.01	0.005	mg/L	04/04/14	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	04/07/14	RS	SW7470
Potassium (Dissolved)	26.3	0.1	0.1	mg/L	04/04/14	LK	SW6010
Magnesium (Dissolved)	67.3	0.01	0.001	mg/L	04/04/14	EK	SW6010
Manganese, (Dissolved)	< 0.005	0.005	0.001	mg/L	04/04/14	EK	SW6010
Sodium (Dissolved)	37.8	1.1	1.1	mg/L	04/07/14	EK	SW6010
Nickel, (Dissolved)	0.008	0.004	0.0005	mg/L	04/04/14	EK	SW6010
Lead (Dissolved)	0.038	0.002	0.001	mg/L	04/04/14	EK	SW6010

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	04/04/14	TH	7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	04/08/14	RS	7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	04/07/14	RS	7010
Vanadium, (Dissolved)	< 0.01	0.01	0.001	mg/L	04/04/14	EK	SW6010
Zinc, (Dissolved)	0.260	0.011	0.001	mg/L	04/04/14	EK	SW6010
Iron	0.41	0.01	0.005	mg/L	04/07/14	EK	SW6010
Mercury	< 0.0002	0.0002	0.00015	mg/L	04/07/14	RS	SW7470
Potassium	23.9	0.1	0.1	mg/L	04/07/14	EK	SW6010
Magnesium	65.5	0.01	0.001	mg/L	04/07/14	EK	SW6010
Manganese	0.015	0.005	0.001	mg/L	04/07/14	EK	SW6010
Sodium	36.8	1.0	1.0	mg/L	04/07/14	EK	SW6010
Nickel	0.008	0.004	0.0005	mg/L	04/07/14	EK	SW6010
Lead	0.141	0.002	0.001	mg/L	04/07/14	EK	SW6010
Antimony	< 0.003	0.003	0.002	mg/L	04/09/14	RS	7010
Selenium	< 0.004	0.004	0.001	mg/L	04/08/14	RS	7010
Thallium - LDL	< 0.0005	0.0005	0.0005	mg/L	04/08/14	RS	7010
Vanadium	< 0.010	0.010	0.001	mg/L	04/07/14	EK	SW6010
Zinc	0.268	0.010	0.001	mg/L	04/07/14	EK	SW6010
Filtration	Completed				04/04/14	AG	0.45um Filter
Dissolved Mercury Digestion	Completed				04/07/14	X/X	SW7470
Mercury Digestion	Completed				04/07/14	X/X	SW7470
PCB Extraction	Completed					LT	SW3510C
Extraction for Pest (2 Liter)	Completed				04/04/14	LT	SW3510
Semi-Volatile Extraction	Completed				04/04/14	E/D/D	SW3520
Dissolved Metals Preparation	Completed				04/04/14	AG	SW846-3005
Total Metals Digestion	Completed				04/04/14	AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
4,4' -DDE	0.017	0.010	0.010	ug/L	04/08/14	CE	SW8081
4,4' -DDT	0.17	0.010	0.010	ug/L	04/08/14	CE	SW8081
a-BHC	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
a-chlordane	0.014	0.010	0.010	ug/L	04/08/14	CE	SW8081
Alachlor	ND	0.075	0.075	ug/L	04/08/14	CE	SW8081
Aldrin	ND	0.002	0.002	ug/L	04/08/14	CE	SW8081
b-BHC	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
Chlordane	0.084	0.050	0.050	ug/L	04/08/14	CE	SW8081
d-BHC	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
Dieldrin	ND	0.018	0.018	ug/L	04/08/14	CE	SW8081
Endosulfan I	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endosulfan II	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endosulfan Sulfate	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endrin	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endrin Aldehyde	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endrin ketone	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
g-BHC (Lindane)	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
g-chlordane	0.012	0.010	0.010	ug/L	04/08/14	CE	SW8081
Heptachlor	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Heptachlor epoxide	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Methoxychlor	ND	0.10	0.10	ug/L	04/08/14	CE	SW8081

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Toxaphene	ND	0.20	0.20	ug/L	04/08/14	CE	SW8081
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	100			%	04/08/14	CE	SW8081
%TCMX (Surrogate Rec)	84			%	04/08/14	CE	SW8081
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1221	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1232	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1242	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1248	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1254	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1260	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1262	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1268	ND	0.072	0.072	ug/L	04/07/14	AW	8082
<u>QA/QC Surrogates</u>							
% DCBP	65			%	04/07/14	AW	30 - 150 %
% TCMX	58			%	04/07/14	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
1,1,1-Trichloroethane	ND	5.0	0.19	ug/L	04/05/14	RM	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	0.15	ug/L	04/05/14	RM	SW8260
1,1,2-Trichloroethane	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,1-Dichloroethane	ND	5.0	0.23	ug/L	04/05/14	RM	SW8260
1,1-Dichloroethene	ND	1.0	0.24	ug/L	04/05/14	RM	SW8260
1,1-Dichloropropene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,2,3-Trichloropropane	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	0.36	ug/L	04/05/14	RM	SW8260
1,2-Dibromoethane	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,2-Dichlorobenzene	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
1,2-Dichloroethane	ND	2.0	0.20	ug/L	04/05/14	RM	SW8260
1,2-Dichloropropane	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
1,3-Dichlorobenzene	ND	5.0	0.19	ug/L	04/05/14	RM	SW8260
1,3-Dichloropropane	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
1,4-Dichlorobenzene	ND	5.0	0.19	ug/L	04/05/14	RM	SW8260
2,2-Dichloropropane	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
2-Chlorotoluene	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
2-Hexanone	ND	1.0	0.27	ug/L	04/05/14	RM	SW8260
2-Isopropyltoluene	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
4-Chlorotoluene	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
4-Methyl-2-pentanone	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
Acetone	ND	5.0	0.31	ug/L	04/05/14	RM	SW8260
Acrolein	ND	5.0	0.95	ug/L	04/05/14	RM	SW8260
Acrylonitrile	ND	5.0	0.17	ug/L	04/05/14	RM	SW8260
Benzene	ND	0.70	0.19	ug/L	04/05/14	RM	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromobenzene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
Bromochloromethane	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
Bromodichloromethane	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
Bromoform	ND	5.0	0.10	ug/L	04/05/14	RM	SW8260
Bromomethane	ND	5.0	0.25	ug/L	04/05/14	RM	SW8260
Carbon Disulfide	ND	1.0	0.24	ug/L	04/05/14	RM	SW8260
Carbon tetrachloride	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Chlorobenzene	ND	5.0	0.20	ug/L	04/05/14	RM	SW8260
Chloroethane	ND	5.0	0.24	ug/L	04/05/14	RM	SW8260
Chloroform	ND	5.0	0.22	ug/L	04/05/14	RM	SW8260
Chloromethane	ND	5.0	0.21	ug/L	04/05/14	RM	SW8260
cis-1,2-Dichloroethene	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
cis-1,3-Dichloropropene	ND	0.40	0.15	ug/L	04/05/14	RM	SW8260
Dibromochloromethane	ND	1.0	0.15	ug/L	04/05/14	RM	SW8260
Dibromomethane	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Dichlorodifluoromethane	ND	1.0	0.26	ug/L	04/05/14	RM	SW8260
Ethylbenzene	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
Hexachlorobutadiene	ND	1.0	0.13	ug/L	04/05/14	RM	SW8260
Isopropylbenzene	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
m&p-Xylene	ND	1.0	0.42	ug/L	04/05/14	RM	SW8260
Methyl ethyl ketone	ND	1.0	0.50	ug/L	04/05/14	RM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
Methylene chloride	ND	3.0	0.16	ug/L	04/05/14	RM	SW8260
Naphthalene	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
n-Butylbenzene	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
n-Propylbenzene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
o-Xylene	ND	1.0	0.45	ug/L	04/05/14	RM	SW8260
p-Isopropyltoluene	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
sec-Butylbenzene	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
Styrene	ND	1.0	0.41	ug/L	04/05/14	RM	SW8260
tert-Butylbenzene	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Tetrachloroethene	ND	1.0	0.24	ug/L	04/05/14	RM	SW8260
Tetrahydrofuran (THF)	ND	5.0	0.51	ug/L	04/05/14	RM	SW8260
Toluene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
trans-1,2-Dichloroethene	ND	5.0	0.20	ug/L	04/05/14	RM	SW8260
trans-1,3-Dichloropropene	ND	0.40	0.14	ug/L	04/05/14	RM	SW8260
trans-1,4-dichloro-2-butene	ND	1.0	0.45	ug/L	04/05/14	RM	SW8260
Trichloroethene	1.2	1.0	0.18	ug/L	04/05/14	RM	SW8260
Trichlorofluoromethane	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Trichlorotrifluoroethane	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Vinyl chloride	ND	1.0	0.14	ug/L	04/05/14	RM	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98			%	04/05/14	RM	70 - 130 %
% Bromofluorobenzene	100			%	04/05/14	RM	70 - 130 %
% Dibromofluoromethane	99			%	04/05/14	RM	70 - 130 %
% Toluene-d8	99			%	04/05/14	RM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
1,2-Dichlorobenzene	ND	1.0	1.4	ug/L	04/10/14	DD	SW 8270

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
1,3-Dichlorobenzene	ND	1.0	1.5	ug/L	04/10/14	DD	SW 8270
1,4-Dichlorobenzene	ND	1.0	1.5	ug/L	04/10/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	04/10/14	DD	SW 8270
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
2-Chloronaphthalene	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
2-Chlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2-Methylnaphthalene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2-Nitroaniline	ND	5.0	5.0	ug/L	04/10/14	DD	SW 8270
2-Nitrophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	04/10/14	DD	SW 8270
3-Nitroaniline	ND	5.0	5.0	ug/L	04/10/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
4-Chloroaniline	ND	3.5	2.3	ug/L	04/10/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
4-Nitroaniline	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
4-Nitrophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
Acenaphthene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
Acetophenone	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Aniline	ND	3.5	5.0	ug/L	04/10/14	DD	SW 8270
Anthracene	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Benzidine	ND	10	2.9	ug/L	04/10/14	DD	SW 8270
Benzoic acid	ND	25	10	ug/L	04/10/14	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	04/10/14	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Carbazole	ND	25	3.8	ug/L	04/10/14	DD	SW 8270
Dibenzofuran	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
Diethyl phthalate	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Dimethylphthalate	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Di-n-butylphthalate	ND	5.0	1.3	ug/L	04/10/14	DD	SW 8270
Di-n-octylphthalate	ND	5.0	1.3	ug/L	04/10/14	DD	SW 8270
Fluoranthene	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Fluorene	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
Hexachlorobutadiene	ND	1.0	1.8	ug/L	04/10/14	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
Isophorone	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Naphthalene	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Nitrobenzene	ND	1.0	1.8	ug/L	04/10/14	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
N-Nitrosodimethylamine	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	04/10/14	DD	SW 8270
Phenol	ND	1.0	1.6	ug/L	04/10/14	DD	SW 8270
Pyrene	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
Pyridine	ND	10	1.2	ug/L	04/10/14	DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83			%	04/10/14	DD	15 - 110 %
% 2-Fluorobiphenyl	52			%	04/10/14	DD	30 - 130 %
% 2-Fluorophenol	56			%	04/10/14	DD	15 - 110 %
% Nitrobenzene-d5	52			%	04/10/14	DD	30 - 130 %
% Phenol-d5	57			%	04/10/14	DD	15 - 110 %
% Terphenyl-d14	38			%	04/10/14	DD	30 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	1.5	1.5	ug/L	04/10/14	DD	SW8270 (SIM)
Acenaphthylene	0.25	0.10	0.10	ug/L	04/10/14	DD	SW8270 (SIM)
Benz(a)anthracene	0.46	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(a)pyrene	0.59	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.93	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(ghi)perylene	0.84	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.34	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	1.4	ug/L	04/10/14	DD	SW8270 (SIM)
Chrysene	0.51	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	1.5	ug/L	04/10/14	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.63	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	04/10/14	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	04/10/14	DD	SW8270 (SIM)
Phenanthrene	0.26	0.10	0.10	ug/L	04/10/14	DD	SW8270 (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	125			%	04/10/14	DD	15 - 110 %
% 2-Fluorobiphenyl	69			%	04/10/14	DD	30 - 130 %
% 2-Fluorophenol	70			%	04/10/14	DD	15 - 110 %
% Nitrobenzene-d5	82			%	04/10/14	DD	30 - 130 %
% Phenol-d5	69			%	04/10/14	DD	15 - 110 %
% Terphenyl-d14	57			%	04/10/14	DD	30 - 130 %

3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

For Pesticides, due to the presence of Chlordane in the samples an elevated MDL was reported.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

April 15, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
 Environmental Business Consultants
 1808 Middle Country Rd
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER
 Location Code: EBC
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: KB
 Received by: SW
 Analyzed by: see "By" below

Date

04/03/14
 04/04/14

Time

0:00
 15:20

Laboratory Data

SDG ID: GBG28185
 Phoenix ID: BG28186

Project ID: 535 FLUSHING
 Client ID: MW 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.005	0.005	0.0006	mg/L	04/07/14	EK	SW6010
Aluminum	12.8	0.010	0.0024	mg/L	04/07/14	EK	SW6010
Arsenic - LDL	0.016	0.004	0.001	mg/L	04/07/14	EK	SW6010
Barium	0.424	0.010	0.0003	mg/L	04/07/14	EK	SW6010
Beryllium	< 0.001	0.001	0.001	mg/L	04/07/14	EK	SW6010
Calcium	570	0.10	0.030	mg/L	04/07/14	EK	SW6010
Cadmium	< 0.004	0.004	0.0002	mg/L	04/07/14	EK	SW6010
Cobalt	0.006	0.005	0.0003	mg/L	04/07/14	EK	SW6010
Chromium	0.040	0.001	0.0009	mg/L	04/07/14	EK	SW6010
Copper	0.048	0.005	0.001	mg/L	04/07/14	EK	SW6010
Silver (Dissolved)	< 0.005	0.005	0.0006	mg/L	04/04/14	EK	SW6010
Aluminum (Dissolved)	0.95	0.01	0.0026	mg/L	04/04/14	EK	SW6010
Arsenic, (Dissolved)	0.006	0.003	0.001	mg/L	04/04/14	EK	SW6010
Barium (Dissolved)	0.071	0.011	0.0003	mg/L	04/04/14	EK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	04/04/14	EK	SW6010
Calcium (Dissolved)	555	0.11	0.032	mg/L	04/07/14	EK	SW6010
Cadmium (Dissolved)	< 0.004	0.004	0.0002	mg/L	04/04/14	EK	SW6010
Cobalt, (Dissolved)	< 0.005	0.005	0.0003	mg/L	04/04/14	EK	SW6010
Chromium (Dissolved)	0.005	0.001	0.0010	mg/L	04/04/14	EK	SW6010
Copper, (Dissolved)	0.015	0.005	0.001	mg/L	04/04/14	EK	SW6010
Iron, (Dissolved)	0.53	0.01	0.005	mg/L	04/04/14	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	04/07/14	RS	SW7470
Potassium (Dissolved)	30.9	0.1	0.1	mg/L	04/04/14	LK	SW6010
Magnesium (Dissolved)	32.5	0.01	0.001	mg/L	04/04/14	EK	SW6010
Manganese, (Dissolved)	0.086	0.005	0.001	mg/L	04/04/14	EK	SW6010
Sodium (Dissolved)	44.5	1.1	1.1	mg/L	04/07/14	EK	SW6010
Nickel, (Dissolved)	0.004	0.004	0.0005	mg/L	04/04/14	EK	SW6010
Lead (Dissolved)	0.026	0.002	0.001	mg/L	04/04/14	EK	SW6010

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	04/04/14	TH	7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	04/08/14	RS	7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	04/07/14	RS	7010
Vanadium, (Dissolved)	< 0.01	0.01	0.001	mg/L	04/04/14	EK	SW6010
Zinc, (Dissolved)	0.016	0.011	0.001	mg/L	04/04/14	EK	SW6010
Iron	12.3	0.01	0.005	mg/L	04/07/14	EK	SW6010
Mercury	< 0.0002	0.0002	0.00015	mg/L	04/07/14	RS	SW7470
Potassium	29.8	0.1	0.1	mg/L	04/07/14	EK	SW6010
Magnesium	35.1	0.01	0.001	mg/L	04/07/14	EK	SW6010
Manganese	0.245	0.005	0.001	mg/L	04/07/14	EK	SW6010
Sodium	46.9	1.0	1.0	mg/L	04/07/14	EK	SW6010
Nickel	0.022	0.004	0.0005	mg/L	04/07/14	EK	SW6010
Lead	0.723	0.002	0.001	mg/L	04/07/14	EK	SW6010
Antimony	< 0.003	0.003	0.002	mg/L	04/09/14	RS	7010
Selenium	< 0.004	0.004	0.001	mg/L	04/08/14	RS	7010
Thallium - LDL	< 0.0005	0.0005	0.0005	mg/L	04/08/14	RS	7010
Vanadium	0.032	0.010	0.001	mg/L	04/07/14	EK	SW6010
Zinc	0.311	0.010	0.001	mg/L	04/07/14	EK	SW6010
Filtration	Completed				04/04/14	AG	0.45um Filter
Dissolved Mercury Digestion	Completed				04/07/14	X/X	SW7470
Mercury Digestion	Completed				04/07/14	X/X	SW7470
PCB Extraction	Completed					LT	SW3510C
Extraction for Pest (2 Liter)	Completed				04/04/14	LT	SW3510
Semi-Volatile Extraction	Completed				04/04/14	E/D/D	SW3520
Dissolved Metals Preparation	Completed				04/04/14	AG	SW846-3005
Total Metals Digestion	Completed				04/04/14	AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
4,4' -DDE	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
4,4' -DDT	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
a-BHC	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
a-chlordane	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Alachlor	ND	0.075	0.075	ug/L	04/08/14	CE	SW8081
Aldrin	ND	0.002	0.002	ug/L	04/08/14	CE	SW8081
b-BHC	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
Chlordane	ND	0.050	0.050	ug/L	04/08/14	CE	SW8081
d-BHC	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
Dieldrin	ND	0.002	0.002	ug/L	04/08/14	CE	SW8081
Endosulfan I	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endosulfan II	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endosulfan Sulfate	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endrin	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endrin Aldehyde	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endrin ketone	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
g-BHC (Lindane)	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
g-chlordane	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Heptachlor	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Heptachlor epoxide	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Methoxychlor	ND	0.10	0.10	ug/L	04/08/14	CE	SW8081

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Toxaphene	ND	0.20	0.20	ug/L	04/08/14	CE	SW8081
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	Interference			%	04/08/14	CE	SW8081
%TCMX (Surrogate Rec)	100			%	04/08/14	CE	SW8081
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1221	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1232	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1242	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1248	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1254	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1260	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1262	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1268	ND	0.072	0.072	ug/L	04/07/14	AW	8082
<u>QA/QC Surrogates</u>							
% DCBP	72			%	04/07/14	AW	30 - 150 %
% TCMX	61			%	04/07/14	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	2.0	0.38	ug/L	04/05/14	RM	SW8260
1,1,1-Trichloroethane	ND	10	0.38	ug/L	04/05/14	RM	SW8260
1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/L	04/05/14	RM	SW8260
1,1,2-Trichloroethane	ND	2.0	0.40	ug/L	04/05/14	RM	SW8260
1,1-Dichloroethane	ND	10	0.46	ug/L	04/05/14	RM	SW8260
1,1-Dichloroethene	ND	2.0	0.48	ug/L	04/05/14	RM	SW8260
1,1-Dichloropropene	ND	2.0	0.40	ug/L	04/05/14	RM	SW8260
1,2,3-Trichlorobenzene	ND	2.0	0.40	ug/L	04/05/14	RM	SW8260
1,2,3-Trichloropropane	ND	2.0	0.42	ug/L	04/05/14	RM	SW8260
1,2,4-Trichlorobenzene	ND	2.0	0.36	ug/L	04/05/14	RM	SW8260
1,2,4-Trimethylbenzene	ND	2.0	0.36	ug/L	04/05/14	RM	SW8260
1,2-Dibromo-3-chloropropane	ND	2.0	0.72	ug/L	04/05/14	RM	SW8260
1,2-Dibromoethane	ND	2.0	0.40	ug/L	04/05/14	RM	SW8260
1,2-Dichlorobenzene	ND	2.0	0.32	ug/L	04/05/14	RM	SW8260
1,2-Dichloroethane	ND	4.0	0.40	ug/L	04/05/14	RM	SW8260
1,2-Dichloropropane	ND	2.0	0.36	ug/L	04/05/14	RM	SW8260
1,3,5-Trimethylbenzene	ND	2.0	0.42	ug/L	04/05/14	RM	SW8260
1,3-Dichlorobenzene	ND	10	0.38	ug/L	04/05/14	RM	SW8260
1,3-Dichloropropane	ND	2.0	0.44	ug/L	04/05/14	RM	SW8260
1,4-Dichlorobenzene	ND	10	0.38	ug/L	04/05/14	RM	SW8260
2,2-Dichloropropane	ND	2.0	0.32	ug/L	04/05/14	RM	SW8260
2-Chlorotoluene	ND	2.0	0.46	ug/L	04/05/14	RM	SW8260
2-Hexanone	ND	2.0	0.54	ug/L	04/05/14	RM	SW8260
2-Isopropyltoluene	ND	2.0	0.42	ug/L	04/05/14	RM	SW8260
4-Chlorotoluene	ND	2.0	0.32	ug/L	04/05/14	RM	SW8260
4-Methyl-2-pentanone	ND	2.0	0.38	ug/L	04/05/14	RM	SW8260
Acetone	17	10	0.62	ug/L	04/05/14	RM	SW8260
Acrolein	ND	10	1.9	ug/L	04/05/14	RM	SW8260
Acrylonitrile	ND	10	0.34	ug/L	04/05/14	RM	SW8260
Benzene	ND	1.4	0.38	ug/L	04/05/14	RM	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromobenzene	ND	2.0	0.40	ug/L	04/05/14	RM	SW8260
Bromochloromethane	ND	2.0	0.44	ug/L	04/05/14	RM	SW8260
Bromodichloromethane	ND	2.0	0.32	ug/L	04/05/14	RM	SW8260
Bromoform	ND	10	0.20	ug/L	04/05/14	RM	SW8260
Bromomethane	ND	10	0.50	ug/L	04/05/14	RM	SW8260
Carbon Disulfide	ND	2.0	0.48	ug/L	04/05/14	RM	SW8260
Carbon tetrachloride	ND	2.0	0.46	ug/L	04/05/14	RM	SW8260
Chlorobenzene	ND	10	0.40	ug/L	04/05/14	RM	SW8260
Chloroethane	ND	10	0.48	ug/L	04/05/14	RM	SW8260
Chloroform	ND	10	0.44	ug/L	04/05/14	RM	SW8260
Chloromethane	ND	10	0.42	ug/L	04/05/14	RM	SW8260
cis-1,2-Dichloroethene	ND	2.0	0.46	ug/L	04/05/14	RM	SW8260
cis-1,3-Dichloropropene	ND	0.80	0.30	ug/L	04/05/14	RM	SW8260
Dibromochloromethane	ND	2.0	0.30	ug/L	04/05/14	RM	SW8260
Dibromomethane	ND	2.0	0.46	ug/L	04/05/14	RM	SW8260
Dichlorodifluoromethane	ND	2.0	0.52	ug/L	04/05/14	RM	SW8260
Ethylbenzene	ND	2.0	0.38	ug/L	04/05/14	RM	SW8260
Hexachlorobutadiene	ND	2.0	0.26	ug/L	04/05/14	RM	SW8260
Isopropylbenzene	ND	2.0	0.44	ug/L	04/05/14	RM	SW8260
m&p-Xylene	ND	2.0	0.84	ug/L	04/05/14	RM	SW8260
Methyl ethyl ketone	4.6	2.0	1.0	ug/L	04/05/14	RM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	0.38	ug/L	04/05/14	RM	SW8260
Methylene chloride	ND	6.0	0.32	ug/L	04/05/14	RM	SW8260
Naphthalene	ND	2.0	0.38	ug/L	04/05/14	RM	SW8260
n-Butylbenzene	ND	2.0	0.44	ug/L	04/05/14	RM	SW8260
n-Propylbenzene	ND	2.0	0.40	ug/L	04/05/14	RM	SW8260
o-Xylene	ND	2.0	0.90	ug/L	04/05/14	RM	SW8260
p-Isopropyltoluene	ND	2.0	0.42	ug/L	04/05/14	RM	SW8260
sec-Butylbenzene	ND	2.0	0.44	ug/L	04/05/14	RM	SW8260
Styrene	ND	2.0	0.82	ug/L	04/05/14	RM	SW8260
tert-Butylbenzene	ND	2.0	0.46	ug/L	04/05/14	RM	SW8260
Tetrachloroethene	ND	2.0	0.48	ug/L	04/05/14	RM	SW8260
Tetrahydrofuran (THF)	ND	10	1.0	ug/L	04/05/14	RM	SW8260
Toluene	ND	2.0	0.40	ug/L	04/05/14	RM	SW8260
trans-1,2-Dichloroethene	ND	10	0.40	ug/L	04/05/14	RM	SW8260
trans-1,3-Dichloropropene	ND	0.80	0.28	ug/L	04/05/14	RM	SW8260
trans-1,4-dichloro-2-butene	ND	2.0	0.90	ug/L	04/05/14	RM	SW8260
Trichloroethene	ND	2.0	0.36	ug/L	04/05/14	RM	SW8260
Trichlorofluoromethane	ND	2.0	0.46	ug/L	04/05/14	RM	SW8260
Trichlorotrifluoroethane	ND	2.0	0.46	ug/L	04/05/14	RM	SW8260
Vinyl chloride	ND	2.0	0.28	ug/L	04/05/14	RM	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97			%	04/05/14	RM	70 - 130 %
% Bromofluorobenzene	99			%	04/05/14	RM	70 - 130 %
% Dibromofluoromethane	99			%	04/05/14	RM	70 - 130 %
% Toluene-d8	99			%	04/05/14	RM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
1,2-Dichlorobenzene	ND	1.0	1.4	ug/L	04/10/14	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
1,3-Dichlorobenzene	ND	1.0	1.5	ug/L	04/10/14	DD	SW 8270
1,4-Dichlorobenzene	ND	1.0	1.5	ug/L	04/10/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	04/10/14	DD	SW 8270
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
2-Chloronaphthalene	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
2-Chlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2-Methylnaphthalene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2-Nitroaniline	ND	5.0	5.0	ug/L	04/10/14	DD	SW 8270
2-Nitrophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	04/10/14	DD	SW 8270
3-Nitroaniline	ND	5.0	5.0	ug/L	04/10/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
4-Chloroaniline	ND	3.5	2.3	ug/L	04/10/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
4-Nitroaniline	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
4-Nitrophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
Acenaphthene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
Acetophenone	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Aniline	ND	3.5	5.0	ug/L	04/10/14	DD	SW 8270
Anthracene	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Benzidine	ND	10	2.9	ug/L	04/10/14	DD	SW 8270
Benzoic acid	ND	25	10	ug/L	04/10/14	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	04/10/14	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Carbazole	ND	25	3.8	ug/L	04/10/14	DD	SW 8270
Dibenzofuran	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
Diethyl phthalate	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Dimethylphthalate	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Di-n-butylphthalate	ND	5.0	1.3	ug/L	04/10/14	DD	SW 8270
Di-n-octylphthalate	ND	5.0	1.3	ug/L	04/10/14	DD	SW 8270
Fluoranthene	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Fluorene	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
Hexachlorobutadiene	ND	1.0	1.8	ug/L	04/10/14	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
Isophorone	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Naphthalene	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Nitrobenzene	ND	1.0	1.8	ug/L	04/10/14	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
N-Nitrosodimethylamine	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	04/10/14	DD	SW 8270
Phenol	ND	1.0	1.6	ug/L	04/10/14	DD	SW 8270
Pyrene	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
Pyridine	ND	10	1.2	ug/L	04/10/14	DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	82			%	04/10/14	DD	15 - 110 %
% 2-Fluorobiphenyl	50			%	04/10/14	DD	30 - 130 %
% 2-Fluorophenol	22			%	04/10/14	DD	15 - 110 %
% Nitrobenzene-d5	49			%	04/10/14	DD	30 - 130 %
% Phenol-d5	14			%	04/10/14	DD	15 - 110 %
% Terphenyl-d14	53			%	04/10/14	DD	30 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	1.5	1.5	ug/L	04/10/14	DD	SW8270 (SIM)
Acenaphthylene	0.14	0.10	0.10	ug/L	04/10/14	DD	SW8270 (SIM)
Benz(a)anthracene	0.26	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(a)pyrene	0.26	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.48	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(ghi)perylene	0.33	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.16	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	1.4	ug/L	04/10/14	DD	SW8270 (SIM)
Chrysene	0.3	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	1.5	ug/L	04/10/14	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.26	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	04/10/14	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	04/10/14	DD	SW8270 (SIM)
Phenanthrene	0.24	0.10	0.10	ug/L	04/10/14	DD	SW8270 (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	102			%	04/10/14	DD	15 - 110 %
% 2-Fluorobiphenyl	66			%	04/10/14	DD	30 - 130 %
% 2-Fluorophenol	28			%	04/10/14	DD	15 - 110 %
% Nitrobenzene-d5	81			%	04/10/14	DD	30 - 130 %
% Phenol-d5	17			%	04/10/14	DD	15 - 110 %
% Terphenyl-d14	74			%	04/10/14	DD	30 - 130 %

3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
 3 = This parameter exceeds laboratory specified limits.
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
 BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

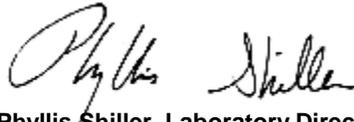
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:

Poor surrogate recovery was observed for semivolatiles and there was insufficient sample for re-extraction.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

April 15, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
 Environmental Business Consultants
 1808 Middle Country Rd
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER
 Location Code: EBC
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: KB
 Received by: SW
 Analyzed by: see "By" below

Date

04/03/14
 04/04/14

Time

0:00
 15:20

Laboratory Data

SDG ID: GBG28185
 Phoenix ID: BG28187

Project ID: 535 FLUSHING
 Client ID: DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.005	0.005	0.0006	mg/L	04/07/14	EK	SW6010
Aluminum	0.206	0.010	0.0024	mg/L	04/07/14	EK	SW6010
Arsenic - LDL	< 0.004	0.004	0.001	mg/L	04/07/14	EK	SW6010
Barium	0.057	0.010	0.0003	mg/L	04/07/14	EK	SW6010
Beryllium	< 0.001	0.001	0.001	mg/L	04/07/14	EK	SW6010
Calcium	496	0.10	0.030	mg/L	04/07/14	EK	SW6010
Cadmium	< 0.004	0.004	0.0002	mg/L	04/07/14	EK	SW6010
Cobalt	< 0.005	0.005	0.0003	mg/L	04/07/14	EK	SW6010
Chromium	0.002	0.001	0.0009	mg/L	04/07/14	EK	SW6010
Copper	0.028	0.005	0.001	mg/L	04/07/14	EK	SW6010
Silver (Dissolved)	< 0.005	0.005	0.0006	mg/L	04/04/14	EK	SW6010
Aluminum (Dissolved)	0.13	0.01	0.0026	mg/L	04/04/14	EK	SW6010
Arsenic, (Dissolved)	0.005	0.003	0.001	mg/L	04/04/14	EK	SW6010
Barium (Dissolved)	0.053	0.011	0.0003	mg/L	04/04/14	EK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	04/04/14	EK	SW6010
Calcium (Dissolved)	511	0.11	0.032	mg/L	04/07/14	EK	SW6010
Cadmium (Dissolved)	< 0.004	0.004	0.0002	mg/L	04/04/14	EK	SW6010
Cobalt, (Dissolved)	< 0.005	0.005	0.0003	mg/L	04/04/14	EK	SW6010
Chromium (Dissolved)	0.001	0.001	0.0010	mg/L	04/04/14	EK	SW6010
Copper, (Dissolved)	0.029	0.005	0.001	mg/L	04/04/14	EK	SW6010
Iron, (Dissolved)	0.02	0.01	0.005	mg/L	04/04/14	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	04/07/14	RS	SW7470
Potassium (Dissolved)	25.7	0.1	0.1	mg/L	04/04/14	LK	SW6010
Magnesium (Dissolved)	68.7	0.01	0.001	mg/L	04/04/14	EK	SW6010
Manganese, (Dissolved)	< 0.005	0.005	0.001	mg/L	04/04/14	EK	SW6010
Sodium (Dissolved)	38.1	1.1	1.1	mg/L	04/07/14	EK	SW6010
Nickel, (Dissolved)	0.008	0.004	0.0005	mg/L	04/04/14	EK	SW6010
Lead (Dissolved)	0.051	0.002	0.001	mg/L	04/04/14	EK	SW6010

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	04/04/14	TH	7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	04/08/14	RS	7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	04/07/14	RS	7010
Vanadium, (Dissolved)	< 0.01	0.01	0.001	mg/L	04/04/14	EK	SW6010
Zinc, (Dissolved)	0.273	0.011	0.001	mg/L	04/04/14	EK	SW6010
Iron	0.10	0.01	0.005	mg/L	04/07/14	PS	SW6010
Mercury	< 0.0002	0.0002	0.00015	mg/L	04/07/14	RS	SW7470
Potassium	23.6	0.1	0.1	mg/L	04/07/14	EK	SW6010
Magnesium	64.7	0.01	0.001	mg/L	04/07/14	EK	SW6010
Manganese	< 0.005	0.005	0.001	mg/L	04/07/14	EK	SW6010
Sodium	37.1	1.0	1.0	mg/L	04/07/14	EK	SW6010
Nickel	0.008	0.004	0.0005	mg/L	04/07/14	EK	SW6010
Lead	0.057	0.002	0.001	mg/L	04/07/14	EK	SW6010
Antimony	< 0.003	0.003	0.002	mg/L	04/09/14	RS	7010
Selenium	< 0.004	0.004	0.001	mg/L	04/08/14	RS	7010
Thallium - LDL	< 0.0005	0.0005	0.0005	mg/L	04/08/14	RS	7010
Vanadium	< 0.010	0.010	0.001	mg/L	04/07/14	EK	SW6010
Zinc	0.263	0.010	0.001	mg/L	04/07/14	EK	SW6010
Filtration	Completed				04/09/14	AG	0.45um Filter
Dissolved Mercury Digestion	Completed				04/07/14	X/X	SW7470
Mercury Digestion	Completed				04/07/14	X/X	SW7470
PCB Extraction	Completed					LT	SW3510C
Extraction for Pest (2 Liter)	Completed				04/04/14	LT	SW3510
Semi-Volatile Extraction	Completed				04/04/14	E/D/D	SW3520
Dissolved Metals Preparation	Completed				04/09/14	AG	SW846-3005
Total Metals Digestion	Completed				04/11/14	SB	SW846 - 3050

Pesticides

4,4' -DDD	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
4,4' -DDE	0.031	0.010	0.010	ug/L	04/08/14	CE	SW8081
4,4' -DDT	0.28	0.010	0.010	ug/L	04/08/14	CE	SW8081
a-BHC	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
a-chlordane	0.018	0.010	0.010	ug/L	04/08/14	CE	SW8081
Alachlor	ND	0.075	0.075	ug/L	04/08/14	CE	SW8081
Aldrin	ND	0.002	0.002	ug/L	04/08/14	CE	SW8081
b-BHC	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
Chlordane	0.14	0.10	0.10	ug/L	04/08/14	CE	SW8081
d-BHC	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
Dieldrin	ND	0.029	0.029	ug/L	04/08/14	CE	SW8081
Endosulfan I	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endosulfan II	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endosulfan Sulfate	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endrin	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endrin Aldehyde	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Endrin ketone	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
g-BHC (Lindane)	ND	0.005	0.005	ug/L	04/08/14	CE	SW8081
g-chlordane	0.018	0.010	0.010	ug/L	04/08/14	CE	SW8081
Heptachlor	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Heptachlor epoxide	ND	0.010	0.010	ug/L	04/08/14	CE	SW8081
Methoxychlor	ND	0.10	0.10	ug/L	04/08/14	CE	SW8081

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Toxaphene	ND	0.20	0.20	ug/L	04/08/14	CE	SW8081
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	100			%	04/08/14	CE	SW8081
%TCMX (Surrogate Rec)	83			%	04/08/14	CE	SW8081
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1221	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1232	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1242	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1248	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1254	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1260	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1262	ND	0.072	0.072	ug/L	04/07/14	AW	8082
PCB-1268	ND	0.072	0.072	ug/L	04/07/14	AW	8082
<u>QA/QC Surrogates</u>							
% DCBP	68			%	04/07/14	AW	30 - 150 %
% TCMX	65			%	04/07/14	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
1,1,1-Trichloroethane	ND	5.0	0.19	ug/L	04/05/14	RM	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	0.15	ug/L	04/05/14	RM	SW8260
1,1,2-Trichloroethane	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,1-Dichloroethane	ND	5.0	0.23	ug/L	04/05/14	RM	SW8260
1,1-Dichloroethene	ND	1.0	0.24	ug/L	04/05/14	RM	SW8260
1,1-Dichloropropene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,2,3-Trichloropropane	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	0.36	ug/L	04/05/14	RM	SW8260
1,2-Dibromoethane	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,2-Dichlorobenzene	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
1,2-Dichloroethane	ND	2.0	0.20	ug/L	04/05/14	RM	SW8260
1,2-Dichloropropane	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
1,3-Dichlorobenzene	ND	5.0	0.19	ug/L	04/05/14	RM	SW8260
1,3-Dichloropropane	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
1,4-Dichlorobenzene	ND	5.0	0.19	ug/L	04/05/14	RM	SW8260
2,2-Dichloropropane	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
2-Chlorotoluene	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
2-Hexanone	ND	1.0	0.27	ug/L	04/05/14	RM	SW8260
2-Isopropyltoluene	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
4-Chlorotoluene	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
4-Methyl-2-pentanone	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
Acetone	ND	5.0	0.31	ug/L	04/05/14	RM	SW8260
Acrolein	ND	5.0	0.95	ug/L	04/05/14	RM	SW8260
Acrylonitrile	ND	5.0	0.17	ug/L	04/05/14	RM	SW8260
Benzene	ND	0.70	0.19	ug/L	04/05/14	RM	SW8260

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromobenzene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
Bromochloromethane	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
Bromodichloromethane	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
Bromoform	ND	5.0	0.10	ug/L	04/05/14	RM	SW8260
Bromomethane	ND	5.0	0.25	ug/L	04/05/14	RM	SW8260
Carbon Disulfide	ND	1.0	0.24	ug/L	04/05/14	RM	SW8260
Carbon tetrachloride	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Chlorobenzene	ND	5.0	0.20	ug/L	04/05/14	RM	SW8260
Chloroethane	ND	5.0	0.24	ug/L	04/05/14	RM	SW8260
Chloroform	ND	5.0	0.22	ug/L	04/05/14	RM	SW8260
Chloromethane	ND	5.0	0.21	ug/L	04/05/14	RM	SW8260
cis-1,2-Dichloroethene	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
cis-1,3-Dichloropropene	ND	0.40	0.15	ug/L	04/05/14	RM	SW8260
Dibromochloromethane	ND	1.0	0.15	ug/L	04/05/14	RM	SW8260
Dibromomethane	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Dichlorodifluoromethane	ND	1.0	0.26	ug/L	04/05/14	RM	SW8260
Ethylbenzene	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
Hexachlorobutadiene	ND	1.0	0.13	ug/L	04/05/14	RM	SW8260
Isopropylbenzene	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
m&p-Xylene	ND	1.0	0.42	ug/L	04/05/14	RM	SW8260
Methyl ethyl ketone	ND	1.0	0.50	ug/L	04/05/14	RM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
Methylene chloride	ND	3.0	0.16	ug/L	04/05/14	RM	SW8260
Naphthalene	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
n-Butylbenzene	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
n-Propylbenzene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
o-Xylene	ND	1.0	0.45	ug/L	04/05/14	RM	SW8260
p-Isopropyltoluene	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
sec-Butylbenzene	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
Styrene	ND	1.0	0.41	ug/L	04/05/14	RM	SW8260
tert-Butylbenzene	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Tetrachloroethene	ND	1.0	0.24	ug/L	04/05/14	RM	SW8260
Tetrahydrofuran (THF)	ND	5.0	0.51	ug/L	04/05/14	RM	SW8260
Toluene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
trans-1,2-Dichloroethene	ND	5.0	0.20	ug/L	04/05/14	RM	SW8260
trans-1,3-Dichloropropene	ND	0.40	0.14	ug/L	04/05/14	RM	SW8260
trans-1,4-dichloro-2-butene	ND	1.0	0.45	ug/L	04/05/14	RM	SW8260
Trichloroethene	1.1	1.0	0.18	ug/L	04/05/14	RM	SW8260
Trichlorofluoromethane	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Trichlorotrifluoroethane	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Vinyl chloride	ND	1.0	0.14	ug/L	04/05/14	RM	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101			%	04/05/14	RM	70 - 130 %
% Bromofluorobenzene	99			%	04/05/14	RM	70 - 130 %
% Dibromofluoromethane	100			%	04/05/14	RM	70 - 130 %
% Toluene-d8	101			%	04/05/14	RM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
1,2-Dichlorobenzene	ND	1.0	1.4	ug/L	04/10/14	DD	SW 8270

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
1,3-Dichlorobenzene	ND	1.0	1.5	ug/L	04/10/14	DD	SW 8270
1,4-Dichlorobenzene	ND	1.0	1.5	ug/L	04/10/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	04/10/14	DD	SW 8270
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
2-Chloronaphthalene	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
2-Chlorophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2-Methylnaphthalene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
2-Nitroaniline	ND	5.0	5.0	ug/L	04/10/14	DD	SW 8270
2-Nitrophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	04/10/14	DD	SW 8270
3-Nitroaniline	ND	5.0	5.0	ug/L	04/10/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
4-Chloroaniline	ND	3.5	2.3	ug/L	04/10/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
4-Nitroaniline	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
4-Nitrophenol	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
Acenaphthene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
Acetophenone	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Aniline	ND	3.5	5.0	ug/L	04/10/14	DD	SW 8270
Anthracene	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Benzidine	ND	10	2.9	ug/L	04/10/14	DD	SW 8270
Benzoic acid	ND	25	10	ug/L	04/10/14	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	04/10/14	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Carbazole	ND	25	3.8	ug/L	04/10/14	DD	SW 8270
Dibenzofuran	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
Diethyl phthalate	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Dimethylphthalate	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Di-n-butylphthalate	ND	5.0	1.3	ug/L	04/10/14	DD	SW 8270
Di-n-octylphthalate	ND	5.0	1.3	ug/L	04/10/14	DD	SW 8270
Fluoranthene	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
Fluorene	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
Hexachlorobutadiene	ND	1.0	1.8	ug/L	04/10/14	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	04/10/14	DD	SW 8270
Isophorone	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Naphthalene	ND	5.0	1.4	ug/L	04/10/14	DD	SW 8270
Nitrobenzene	ND	1.0	1.8	ug/L	04/10/14	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
N-Nitrosodimethylamine	ND	1.0	1.0	ug/L	04/10/14	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	04/10/14	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	04/10/14	DD	SW 8270
Phenol	ND	1.0	1.6	ug/L	04/10/14	DD	SW 8270
Pyrene	ND	5.0	1.7	ug/L	04/10/14	DD	SW 8270
Pyridine	ND	10	1.2	ug/L	04/10/14	DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83			%	04/10/14	DD	15 - 110 %
% 2-Fluorobiphenyl	52			%	04/10/14	DD	30 - 130 %
% 2-Fluorophenol	61			%	04/10/14	DD	15 - 110 %
% Nitrobenzene-d5	51			%	04/10/14	DD	30 - 130 %
% Phenol-d5	64			%	04/10/14	DD	15 - 110 %
% Terphenyl-d14	41			%	04/10/14	DD	30 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	1.5	1.5	ug/L	04/10/14	DD	SW8270 (SIM)
Acenaphthylene	0.18	0.10	0.10	ug/L	04/10/14	DD	SW8270 (SIM)
Benz(a)anthracene	0.38	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(a)pyrene	0.47	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.75	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(ghi)perylene	0.58	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.26	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	1.4	ug/L	04/10/14	DD	SW8270 (SIM)
Chrysene	0.41	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	1.5	ug/L	04/10/14	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.45	0.02	0.02	ug/L	04/10/14	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	04/10/14	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	04/10/14	DD	SW8270 (SIM)
Phenanthrene	0.26	0.10	0.10	ug/L	04/10/14	DD	SW8270 (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	120			%	04/10/14	DD	15 - 110 %
% 2-Fluorobiphenyl	69			%	04/10/14	DD	30 - 130 %
% 2-Fluorophenol	80			%	04/10/14	DD	15 - 110 %
% Nitrobenzene-d5	86			%	04/10/14	DD	30 - 130 %
% Phenol-d5	82			%	04/10/14	DD	15 - 110 %
% Terphenyl-d14	56			%	04/10/14	DD	30 - 130 %

3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

For Pesticides, due to the presence of Chlordane in the samples an elevated MDL was reported.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

April 15, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
 Environmental Business Consultants
 1808 Middle Country Rd
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER
 Location Code: EBC
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: KB
 Received by: SW
 Analyzed by: see "By" below

Date: 04/03/14 0:00
 04/04/14 15:20

Laboratory Data

SDG ID: GBG28185
 Phoenix ID: BG28188

Project ID: 535 FLUSHING
 Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
1,1,1-Trichloroethane	ND	5.0	0.19	ug/L	04/05/14	RM	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	0.15	ug/L	04/05/14	RM	SW8260
1,1,2-Trichloroethane	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,1-Dichloroethane	ND	5.0	0.23	ug/L	04/05/14	RM	SW8260
1,1-Dichloroethene	ND	1.0	0.24	ug/L	04/05/14	RM	SW8260
1,1-Dichloropropene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,2,3-Trichloropropane	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	0.36	ug/L	04/05/14	RM	SW8260
1,2-Dibromoethane	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
1,2-Dichlorobenzene	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
1,2-Dichloroethane	ND	2.0	0.20	ug/L	04/05/14	RM	SW8260
1,2-Dichloropropane	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
1,3-Dichlorobenzene	ND	5.0	0.19	ug/L	04/05/14	RM	SW8260
1,3-Dichloropropane	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
1,4-Dichlorobenzene	ND	5.0	0.19	ug/L	04/05/14	RM	SW8260
2,2-Dichloropropane	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
2-Chlorotoluene	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
2-Hexanone	ND	1.0	0.27	ug/L	04/05/14	RM	SW8260
2-Isopropyltoluene	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
4-Chlorotoluene	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
4-Methyl-2-pentanone	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Acetone	ND	5.0	0.31	ug/L	04/05/14	RM	SW8260
Acrolein	ND	5.0	0.95	ug/L	04/05/14	RM	SW8260
Acrylonitrile	ND	5.0	0.17	ug/L	04/05/14	RM	SW8260
Benzene	ND	0.70	0.19	ug/L	04/05/14	RM	SW8260
Bromobenzene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
Bromochloromethane	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
Bromodichloromethane	ND	1.0	0.16	ug/L	04/05/14	RM	SW8260
Bromoform	ND	5.0	0.10	ug/L	04/05/14	RM	SW8260
Bromomethane	ND	5.0	0.25	ug/L	04/05/14	RM	SW8260
Carbon Disulfide	ND	1.0	0.24	ug/L	04/05/14	RM	SW8260
Carbon tetrachloride	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Chlorobenzene	ND	5.0	0.20	ug/L	04/05/14	RM	SW8260
Chloroethane	ND	5.0	0.24	ug/L	04/05/14	RM	SW8260
Chloroform	ND	5.0	0.22	ug/L	04/05/14	RM	SW8260
Chloromethane	ND	5.0	0.21	ug/L	04/05/14	RM	SW8260
cis-1,2-Dichloroethene	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
cis-1,3-Dichloropropene	ND	0.40	0.15	ug/L	04/05/14	RM	SW8260
Dibromochloromethane	ND	1.0	0.15	ug/L	04/05/14	RM	SW8260
Dibromomethane	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Dichlorodifluoromethane	ND	1.0	0.26	ug/L	04/05/14	RM	SW8260
Ethylbenzene	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
Hexachlorobutadiene	ND	1.0	0.13	ug/L	04/05/14	RM	SW8260
Isopropylbenzene	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
m&p-Xylene	ND	1.0	0.42	ug/L	04/05/14	RM	SW8260
Methyl ethyl ketone	ND	1.0	0.50	ug/L	04/05/14	RM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
Methylene chloride	ND	3.0	0.16	ug/L	04/05/14	RM	SW8260
Naphthalene	ND	1.0	0.19	ug/L	04/05/14	RM	SW8260
n-Butylbenzene	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
n-Propylbenzene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
o-Xylene	ND	1.0	0.45	ug/L	04/05/14	RM	SW8260
p-Isopropyltoluene	ND	1.0	0.21	ug/L	04/05/14	RM	SW8260
sec-Butylbenzene	ND	1.0	0.22	ug/L	04/05/14	RM	SW8260
Styrene	ND	1.0	0.41	ug/L	04/05/14	RM	SW8260
tert-Butylbenzene	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Tetrachloroethene	ND	1.0	0.24	ug/L	04/05/14	RM	SW8260
Tetrahydrofuran (THF)	ND	5.0	0.51	ug/L	04/05/14	RM	SW8260
Toluene	ND	1.0	0.20	ug/L	04/05/14	RM	SW8260
trans-1,2-Dichloroethene	ND	5.0	0.20	ug/L	04/05/14	RM	SW8260
trans-1,3-Dichloropropene	ND	0.40	0.14	ug/L	04/05/14	RM	SW8260
trans-1,4-dichloro-2-butene	ND	1.0	0.45	ug/L	04/05/14	RM	SW8260
Trichloroethene	ND	1.0	0.18	ug/L	04/05/14	RM	SW8260
Trichlorofluoromethane	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Trichlorotrifluoroethane	ND	1.0	0.23	ug/L	04/05/14	RM	SW8260
Vinyl chloride	ND	1.0	0.14	ug/L	04/05/14	RM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100			%	04/05/14	RM	70 - 130 %
% Bromofluorobenzene	97			%	04/05/14	RM	70 - 130 %
% Dibromofluoromethane	96			%	04/05/14	RM	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Toluene-d8	100			%	04/05/14	RM	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

April 15, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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 Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

April 15, 2014

QA/QC Data

SDG I.D.: GBG28185

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 270029, QC Sample No: BG24584 (BG28185, BG28186, BG28187)												
Antimony	BRL	<0.003	<0.005	NC	84.9	84.7	0.2	95.7	93.1	2.8	75 - 125	20
QA/QC Batch 270049, QC Sample No: BG24585 (BG28185, BG28186, BG28187)												
Antimony (Dissolved)	BRL	<0.003	<0.005	NC	97.2	98.6	1.4	101	103	2.0		
Selenium (Dissolved)	BRL	<0.004	<0.010	NC	106	106	0.0	103	103	0.0		
QA/QC Batch 270657, QC Sample No: BG28185 (BG28185, BG28186, BG28187)												
<u>ICP Metals - Aqueous</u>												
Aluminum	BRL	0.447	0.425	5.00	97.5	98.8	1.3	94.4	96.7	2.4	75 - 125	20
Arsenic	BRL	<0.004	<0.004	NC	101	102	1.0	104	104	0.0	75 - 125	20
Barium	BRL	0.089	0.098	9.60	103	102	1.0	103	104	1.0	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	103	103	0.0	105	106	0.9	75 - 125	20
Cadmium	BRL	<0.004	<0.001	NC	102	102	0.0	101	101	0.0	75 - 125	20
Calcium	BRL	490	521	6.10	104	104	0.0	NC	NC	NC	75 - 125	20
Chromium	BRL	0.001	0.001	NC	101	102	1.0	101	102	1.0	75 - 125	20
Cobalt	BRL	<0.005	<0.002	NC	102	102	0.0	102	102	0.0	75 - 125	20
Copper	BRL	0.029	0.029	0	103	103	0.0	103	105	1.9	75 - 125	20
Iron	0.019	0.41	0.412	0.50	103	103	0.0	103	103	0.0	75 - 125	20
Lead	BRL	0.141	0.141	0	101	102	1.0	101	102	1.0	75 - 125	20
Magnesium	BRL	65.5	65.2	0.50	103	103	0.0	NC	NC	NC	75 - 125	20
Manganese	BRL	0.015	0.014	NC	104	103	1.0	104	104	0.0	75 - 125	20
Nickel	0.001	0.008	0.009	NC	105	106	0.9	105	106	0.9	75 - 125	20
Potassium	BRL	23.9	23.2	3.00	102	103	1.0	111	109	1.8	75 - 125	20
Silver	BRL	<0.005	<0.001	NC	99.7	99.8	0.1	100	101	1.0	75 - 125	20
Sodium	BRL	36.8	39.5	7.10	104	105	1.0	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.010	0.005	NC	101	102	1.0	102	104	1.9	75 - 125	20
Zinc	BRL	0.268	0.270	0.70	102	102	0.0	104	104	0.0	75 - 125	20
QA/QC Batch 270671, QC Sample No: BG28185 (BG28185, BG28186, BG28187)												
Thallium (Dissolved)	BRL	<0.002	<0.005	NC	110	110	0.0	77.5	77.4	0.1	75 - 125	20
QA/QC Batch 270673, QC Sample No: BG28186 (BG28185, BG28186, BG28187)												
<u>ICP Metals - Dissolved</u>												
Aluminum	BRL	0.95	0.92	3.20	102	97.5	4.5	109	118	7.9	75 - 125	20
Arsenic	BRL	0.006	0.006	NC	104	99.8	4.1	104	102	1.9	75 - 125	20
Barium	BRL	0.071	0.070	1.40	107	104	2.8	97.6	97.6	0.0	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	105	102	2.9	97.9	97.5	0.4	75 - 125	20
Cadmium	BRL	<0.004	<0.001	NC	107	103	3.8	92.1	92.2	0.1	75 - 125	20
Calcium	BRL	565	553	2.10	107	103	3.8	NC	NC	NC	75 - 125	20
Chromium	BRL	0.005	0.005	0	105	101	3.9	95.5	94.8	0.7	75 - 125	20
Cobalt	BRL	<0.005	<0.001	NC	108	103	4.7	95.2	95.2	0.0	75 - 125	20
Copper	BRL	0.015	0.015	NC	106	101	4.8	101	102	1.0	75 - 125	20
Iron	BRL	0.53	0.532	0.40	108	104	3.8	97.2	96.5	0.7	75 - 125	20
Lead	BRL	0.026	0.023	12.2	105	101	3.9	93.8	93.1	0.7	75 - 125	20
Magnesium	BRL	32.5	31.6	2.80	110	106	3.7	NC	NC	NC	75 - 125	20

QA/QC Data

SDG I.D.: GBG28185

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Manganese	BRL	0.086	0.085	1.20	111	106	4.6	98.9	99.1	0.2	75 - 125	20
Nickel	BRL	0.004	0.005	NC	110	106	3.7	97.9	97.2	0.7	75 - 125	20
Potassium	0.5	30.9	31.0	0.30	117	113	3.5	NC	NC	NC	75 - 125	20
Silver	BRL	<0.005	<0.001	NC	104	100	3.9	94.4	96.1	1.8	75 - 125	20
Sodium	BRL	44.5	44.7	0.40	106	116	9.0	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.01	0.003	NC	105	101	3.9	98.6	99.4	0.8	75 - 125	20
Zinc	BRL	0.016	0.016	NC	106	102	3.8	99.7	100	0.3	75 - 125	20
QA/QC Batch 270664, QC Sample No: BG28186 (BG28185, BG28186, BG28187)												
Selenium - Water	BRL	<0.004	<0.010	NC	79.6	79.8	0.3				75 - 125	20
Thallium - Water	BRL	<0.002	<0.002	NC	89.3	91.6	2.5	98.2	96.0	2.3	75 - 125	20
QA/QC Batch 270705, QC Sample No: BG28187 (BG28185, BG28186, BG28187)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	115	116	0.9	112	109	2.7	70 - 130	20
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												



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QA/QC Report

April 15, 2014

QA/QC Data

SDG I.D.: GBG28185

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 270748, QC Sample No: BG25607 (BG28185, BG28186 (2X) , BG28187, BG28188)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	96	97	1.0	99	97	2.0	70 - 130	30
1,1,1-Trichloroethane	ND	99	100	1.0	105	100	4.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	88	87	1.1	94	95	1.1	70 - 130	30
1,1,2-Trichloroethane	ND	98	99	1.0	98	97	1.0	70 - 130	30
1,1-Dichloroethane	ND	99	100	1.0	102	99	3.0	70 - 130	30
1,1-Dichloroethene	ND	98	101	3.0	100	99	1.0	70 - 130	30
1,1-Dichloropropene	ND	98	101	3.0	99	97	2.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	114	116	1.7	109	120	9.6	70 - 130	30
1,2,3-Trichloropropane	ND	95	95	0.0	100	97	3.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	114	113	0.9	107	116	8.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	107	109	1.9	103	103	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	93	90	3.3	98	95	3.1	70 - 130	30
1,2-Dibromoethane	ND	96	97	1.0	97	96	1.0	70 - 130	30
1,2-Dichlorobenzene	ND	94	96	2.1	99	95	4.1	70 - 130	30
1,2-Dichloroethane	ND	96	97	1.0	104	100	3.9	70 - 130	30
1,2-Dichloropropane	ND	96	96	0.0	96	95	1.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	103	103	0.0	103	102	1.0	70 - 130	30
1,3-Dichlorobenzene	ND	97	98	1.0	99	98	1.0	70 - 130	30
1,3-Dichloropropane	ND	95	94	1.1	100	96	4.1	70 - 130	30
1,4-Dichlorobenzene	ND	97	99	2.0	99	99	0.0	70 - 130	30
2,2-Dichloropropane	ND	103	104	1.0	85	82	3.6	70 - 130	30
2-Chlorotoluene	ND	98	98	0.0	97	98	1.0	70 - 130	30
2-Hexanone	ND	97	95	2.1	97	101	4.0	70 - 130	30
2-Isopropyltoluene	ND	106	108	1.9	104	105	1.0	70 - 130	30
4-Chlorotoluene	ND	101	101	0.0	96	99	3.1	70 - 130	30
4-Methyl-2-pentanone	ND	92	93	1.1	97	95	2.1	70 - 130	30
Acetone	ND	90	76	16.9	102	102	0.0	70 - 130	30
Acrolein	ND	106	106	0.0	110	110	0.0	70 - 130	30
Acrylonitrile	ND	94	91	3.2	93	90	3.3	70 - 130	30
Benzene	ND	95	98	3.1	96	94	2.1	70 - 130	30
Bromobenzene	ND	95	94	1.1	96	96	0.0	70 - 130	30
Bromochloromethane	ND	95	95	0.0	101	98	3.0	70 - 130	30
Bromodichloromethane	ND	96	98	2.1	102	100	2.0	70 - 130	30
Bromoform	ND	93	93	0.0	102	98	4.0	70 - 130	30
Bromomethane	ND	111	118	6.1	106	115	8.1	70 - 130	30
Carbon Disulfide	ND	83	85	2.4	97	98	1.0	70 - 130	30
Carbon tetrachloride	ND	100	102	2.0	103	101	2.0	70 - 130	30
Chlorobenzene	ND	96	98	2.1	97	95	2.1	70 - 130	30
Chloroethane	ND	102	104	1.9	102	97	5.0	70 - 130	30
Chloroform	ND	96	98	2.1	103	101	2.0	70 - 130	30
Chloromethane	ND	110	109	0.9	101	99	2.0	70 - 130	30

QA/QC Data

SDG I.D.: GBG28185

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	98	95	3.1	100	97	3.0	70 - 130	30
cis-1,3-Dichloropropene	ND	96	97	1.0	97	96	1.0	70 - 130	30
Dibromochloromethane	ND	97	97	0.0	102	101	1.0	70 - 130	30
Dibromomethane	ND	97	96	1.0	100	98	2.0	70 - 130	30
Dichlorodifluoromethane	ND	141	144	2.1	107	104	2.8	70 - 130	30
Ethylbenzene	ND	96	99	3.1	99	97	2.0	70 - 130	30
Hexachlorobutadiene	ND	112	113	0.9	102	109	6.6	70 - 130	30
Isopropylbenzene	ND	98	103	5.0	97	97	0.0	70 - 130	30
m&p-Xylene	ND	96	100	4.1	99	96	3.1	70 - 130	30
Methyl ethyl ketone	ND	86	94	8.9	102	102	0.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	105	95	10.0	100	99	1.0	70 - 130	30
Methylene chloride	ND	81	81	0.0	86	82	4.8	70 - 130	30
Naphthalene	ND	113	113	0.0	107	115	7.2	70 - 130	30
n-Butylbenzene	ND	113	115	1.8	107	108	0.9	70 - 130	30
n-Propylbenzene	ND	107	109	1.9	99	99	0.0	70 - 130	30
o-Xylene	ND	97	101	4.0	99	97	2.0	70 - 130	30
p-Isopropyltoluene	ND	106	108	1.9	102	103	1.0	70 - 130	30
sec-Butylbenzene	ND	100	104	3.9	102	103	1.0	70 - 130	30
Styrene	ND	99	101	2.0	100	97	3.0	70 - 130	30
tert-Butylbenzene	ND	99	102	3.0	100	100	0.0	70 - 130	30
Tetrachloroethene	ND	95	100	5.1	97	93	4.2	70 - 130	30
Tetrahydrofuran (THF)	ND	97	96	1.0	99	98	1.0	70 - 130	30
Toluene	ND	97	100	3.0	98	96	2.1	70 - 130	30
trans-1,2-Dichloroethene	ND	96	98	2.1	99	98	1.0	70 - 130	30
trans-1,3-Dichloropropene	ND	95	95	0.0	97	96	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	109	104	4.7	98	97	1.0	70 - 130	30
Trichloroethene	ND	97	98	1.0	97	95	2.1	70 - 130	30
Trichlorofluoromethane	ND	104	106	1.9	109	104	4.7	70 - 130	30
Trichlorotrifluoroethane	ND	108	112	3.6	104	101	2.9	70 - 130	30
Vinyl chloride	ND	108	110	1.8	98	97	1.0	70 - 130	30
% 1,2-dichlorobenzene-d4	100	97	97	0.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	99	98	97	1.0	101	100	1.0	70 - 130	30
% Dibromofluoromethane	99	98	100	2.0	103	100	3.0	70 - 130	30
% Toluene-d8	100	101	102	1.0	101	100	1.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 270660, QC Sample No: BG28185 (BG28185, BG28186, BG28187)

Pesticides - Ground Water

4,4' -DDD	ND	101	100	1.0				40 - 140	20
4,4' -DDE	ND	97	113	15.2				40 - 140	20
4,4' -DDT	ND	99	112	12.3				40 - 140	20
a-BHC	ND	96	81	16.9				40 - 140	20
a-Chlordane	ND	96	102	6.1				40 - 140	20
Alachlor	ND	NA	NA	NC				40 - 140	20
Aldrin	ND	78	92	16.5				40 - 140	20
b-BHC	ND	96	82	15.7				40 - 140	20
Chlordane	ND	94	101	7.2				40 - 140	20
d-BHC	ND	85	72	16.6				40 - 140	20
Dieldrin	ND	93	90	3.3				40 - 140	20
Endosulfan I	ND	100	91	9.4				40 - 140	20
Endosulfan II	ND	106	91	15.2				40 - 140	20

QA/QC Data

SDG I.D.: GBG28185

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endosulfan sulfate	ND	100	86	15.1				40 - 140	20
Endrin	ND	104	94	10.1				40 - 140	20
Endrin aldehyde	ND	99	65	41.5				40 - 140	20
Endrin ketone	ND	103	88	15.7				40 - 140	20
g-BHC	ND	98	82	17.8				40 - 140	20
g-Chlordane	ND	94	101	7.2				40 - 140	20
Heptachlor	ND	92	94	2.2				40 - 140	20
Heptachlor epoxide	ND	97	89	8.6				40 - 140	20
Methoxychlor	ND	110	105	4.7				40 - 140	20
Toxaphene	ND	NA	NA	NC				40 - 140	20
% DCBP	98	110	120	8.7				30 - 150	20
% TCMX	99	108	90	18.2				30 - 150	20

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported in the LCS, LCSD, MS and MSD.

QA/QC Batch 270640, QC Sample No: BG28185 (BG28185, BG28186, BG28187)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	78	77	1.3				40 - 140	20
PCB-1221	ND							40 - 140	20
PCB-1232	ND							40 - 140	20
PCB-1242	ND							40 - 140	20
PCB-1248	ND							40 - 140	20
PCB-1254	ND							40 - 140	20
PCB-1260	ND	86	83	3.6				40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	72	69	69	0.0				30 - 150	20
% TCMX (Surrogate Rec)	82	79	76	3.9				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 270647, QC Sample No: BG28185 (BG28185, BG28186, BG28187)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	101	93	8.2				30 - 130	20
1,2,4-Trichlorobenzene	ND	95	88	7.7				30 - 130	20
1,2-Dichlorobenzene	ND	91	84	8.0				30 - 130	20
1,2-Diphenylhydrazine	ND	101	99	2.0				30 - 130	20
1,3-Dichlorobenzene	ND	89	84	5.8				30 - 130	20
1,4-Dichlorobenzene	ND	89	84	5.8				30 - 130	20
2,4,5-Trichlorophenol	ND	110	105	4.7				30 - 130	20
2,4,6-Trichlorophenol	ND	107	101	5.8				30 - 130	20
2,4-Dichlorophenol	ND	107	99	7.8				30 - 130	20
2,4-Dimethylphenol	ND	62	59	5.0				30 - 130	20
2,4-Dinitrophenol	ND	113	107	5.5				30 - 130	20
2,4-Dinitrotoluene	ND	106	100	5.8				30 - 130	20
2,6-Dinitrotoluene	ND	104	100	3.9				30 - 130	20
2-Chloronaphthalene	ND	100	96	4.1				30 - 130	20
2-Chlorophenol	ND	89	83	7.0				30 - 130	20
2-Methylnaphthalene	ND	103	98	5.0				30 - 130	20
2-Methylphenol (o-cresol)	ND	80	75	6.5				30 - 130	20
2-Nitroaniline	ND	128	120	6.5				30 - 130	20
2-Nitrophenol	ND	97	92	5.3				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	90	85	5.7				30 - 130	20

QA/QC Data

SDG I.D.: GBG28185

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
3,3'-Dichlorobenzidine	ND	144	131	9.5				30 - 130	20
3-Nitroaniline	ND	110	104	5.6				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	124	117	5.8				30 - 130	20
4-Bromophenyl phenyl ether	ND	104	96	8.0				30 - 130	20
4-Chloro-3-methylphenol	ND	113	105	7.3				30 - 130	20
4-Chloroaniline	ND	64	63	1.6				30 - 130	20
4-Chlorophenyl phenyl ether	ND	103	96	7.0				30 - 130	20
4-Nitroaniline	ND	106	104	1.9				30 - 130	20
4-Nitrophenol	ND	118	113	4.3				15 - 130	20
Acenaphthene	ND	103	97	6.0				30 - 130	20
Acenaphthylene	ND	98	94	4.2				30 - 130	20
Acetophenone	ND	98	92	6.3				30 - 130	20
Aniline	ND	65	61	6.3				30 - 130	20
Anthracene	ND	104	97	7.0				30 - 130	20
Benz(a)anthracene	ND	106	100	5.8				30 - 130	20
Benzidine	ND	137	123	10.8				30 - 130	20
Benzo(a)pyrene	ND	94	88	6.6				30 - 130	20
Benzo(b)fluoranthene	ND	99	97	2.0				30 - 130	20
Benzo(ghi)perylene	ND	103	101	2.0				30 - 130	20
Benzo(k)fluoranthene	ND	94	90	4.3				30 - 130	20
Benzoic acid	ND	67	68	1.5				30 - 130	20
Benzyl butyl phthalate	ND	101	101	0.0				30 - 130	20
Bis(2-chloroethoxy)methane	ND	98	94	4.2				30 - 130	20
Bis(2-chloroethyl)ether	ND	86	82	4.8				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	89	86	3.4				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	104	101	2.9				30 - 130	20
Carbazole	ND	106	99	6.8				30 - 130	20
Chrysene	ND	104	98	5.9				30 - 130	20
Dibenz(a,h)anthracene	ND	107	103	3.8				30 - 130	20
Dibenzofuran	ND	101	95	6.1				30 - 130	20
Diethyl phthalate	ND	104	98	5.9				30 - 130	20
Dimethylphthalate	ND	100	95	5.1				30 - 130	20
Di-n-butylphthalate	ND	102	98	4.0				30 - 130	20
Di-n-octylphthalate	ND	105	99	5.9				30 - 130	20
Fluoranthene	ND	102	99	3.0				30 - 130	20
Fluorene	ND	103	98	5.0				30 - 130	20
Hexachlorobenzene	ND	100	95	5.1				30 - 130	20
Hexachlorobutadiene	ND	95	87	8.8				30 - 130	20
Hexachlorocyclopentadiene	ND	84	74	12.7				30 - 130	20
Hexachloroethane	ND	87	82	5.9				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	105	102	2.9				30 - 130	20
Isophorone	ND	104	99	4.9				30 - 130	20
Naphthalene	ND	100	93	7.3				30 - 130	20
Nitrobenzene	ND	91	86	5.6				30 - 130	20
N-Nitrosodimethylamine	ND	72	67	7.2				30 - 130	20
N-Nitrosodi-n-propylamine	ND	97	92	5.3				30 - 130	20
N-Nitrosodiphenylamine	ND	109	102	6.6				30 - 130	20
Pentachloronitrobenzene	ND	106	98	7.8				30 - 130	20
Pentachlorophenol	ND	118	106	10.7				30 - 130	20
Phenanthrene	ND	104	98	5.9				30 - 130	20
Phenol	ND	75	71	5.5				15 - 130	20
Pyrene	ND	102	100	2.0				30 - 130	20
Pyridine	ND	42	39	7.4				30 - 130	20

QA/QC Data

SDG I.D.: GBG28185

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 2,4,6-Tribromophenol	116	96	93	3.2				15 - 110	20
% 2-Fluorobiphenyl	75	59	56	5.2				30 - 130	20
% 2-Fluorophenol	82	63	59	6.6				15 - 110	20
% Nitrobenzene-d5	79	56	53	5.5				30 - 130	20
% Phenol-d5	92	66	62	6.3				15 - 110	20
% Terphenyl-d14	80	67	67	0.0				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.

r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 April 15, 2014

Sample Criteria Exceedences Report

Criteria: NY: GW

GBG28185 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BG28185	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	0.04	ug/L
BG28185	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	0.0006	ug/L
BG28185	\$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	0.6	ug/L
BG28185	\$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	0.5	ug/L
BG28185	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	0.04	ug/L
BG28185	\$DP8270-SIMF	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	0.4	ug/L
BG28185	\$DP8270-SIMF	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	0.5	ug/L
BG28185	\$DP8270-SIMF	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28185	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.46	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.46	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.51	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.51	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.93	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.93	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.34	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.34	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.59	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.63	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.63	0.02	0.002	0.002	0.002	ug/L
BG28185	\$DPPEST_GA	Chlordane	NY / TOGS - Water Quality / GA Criteria	0.084	0.050	0.05	0.05	0.05	ug/L
BG28185	\$DPPEST_GA	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.017	0.010	0.01	0.01	0.01	ug/L
BG28185	\$DPPEST_GA	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.17	0.010	0.01	0.01	0.01	ug/L
BG28185	\$DPPEST_GA	Dieldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.018	0.01	0.01	0.01	ug/L
BG28185	\$DPPEST_GA	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND	0.018	0.004	0.004	0.004	ug/L
BG28185	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.20	0.06	0.06	0.06	ug/L
BG28185	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.447	0.010	0.1	0.1	0.1	mg/L
BG28185	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.16	0.01	0.1	0.1	0.1	mg/L
BG28185	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	67.3	0.01	35	35	35	mg/L
BG28185	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	37.8	1.1	20	20	20	mg/L
BG28185	D-PB	Lead (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.038	0.002	0.025	0.025	0.025	mg/L
BG28185	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	0.41	0.01	0.3	0.3	0.3	mg/L
BG28185	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	65.5	0.01	35	35	35	mg/L
BG28185	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	36.8	1.0	20	20	20	mg/L
BG28185	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.141	0.002	0.025	0.025	0.025	mg/L
BG28186	\$8260DP25R	Methylene chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	6.0	5	5	5	ug/L
BG28186	\$8260DP25R	1,1,1-Trichloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	1,1-Dichloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	1.4	0.7	0.7	0.7	ug/L
BG28186	\$8260DP25R	Chlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	Chloroform	NY / TAGM - Volatile Organics / Groundwater Standards	ND	10	7	7	7	ug/L

Sample Criteria Exceedences Report

Criteria: NY: GW

GBG28185 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BG28186	\$8260DP25R	Chlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	Chloroethane	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	Chloroform	NY / TOGS - Water Quality / GA Criteria	ND	10	7	7	7	ug/L
BG28186	\$8260DP25R	Chloromethane	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.5	0.5	0.5	ug/L
BG28186	\$8260DP25R	Methylene chloride	NY / TOGS - Water Quality / GA Criteria	ND	6.0	5	5	5	ug/L
BG28186	\$8260DP25R	trans-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.80	0.4	0.4	0.4	ug/L
BG28186	\$8260DP25R	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.80	0.4	0.4	0.4	ug/L
BG28186	\$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	1.4	1	1	1	ug/L
BG28186	\$8260DP25R	Acrylonitrile	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	1	ug/L
BG28186	\$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	4.0	0.6	0.6	0.6	ug/L
BG28186	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.0006	0.0006	0.0006	ug/L
BG28186	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04	0.04	ug/L
BG28186	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04	0.04	ug/L
BG28186	\$8260DP25R	1,1-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	1	ug/L
BG28186	\$8260DP25R	1,1,1-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$8260DP25R	Bromomethane	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$DP8270-SIMF	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	0.4	ug/L
BG28186	\$DP8270-SIMF	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	0.5	ug/L
BG28186	\$DP8270-SIMF	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	5	ug/L
BG28186	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.26	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.26	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.3	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.3	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.48	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.48	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.16	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.16	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.26	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.26	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.26	0.02	0.002	0.002	0.002	ug/L
BG28186	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.20	0.06	0.06	0.06	ug/L
BG28186	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	12.8	0.010	0.1	0.1	0.1	mg/L
BG28186	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.95	0.01	0.1	0.1	0.1	mg/L
BG28186	DFE-WMDP	Iron, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.53	0.01	0.3	0.3	0.3	mg/L
BG28186	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	44.5	1.1	20	20	20	mg/L
BG28186	D-PB	Lead (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.026	0.002	0.025	0.025	0.025	mg/L
BG28186	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	12.3	0.01	0.3	0.3	0.3	mg/L

Sample Criteria Exceedences Report

Criteria: NY: GW

GBG28185 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG28186	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	35.1	0.01	35	35	mg/L
BG28186	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	46.9	1.0	20	20	mg/L
BG28186	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.723	0.002	0.025	0.025	mg/L
BG28187	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BG28187	\$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	ug/L
BG28187	\$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BG28187	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BG28187	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BG28187	\$DP8270-SIMF	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BG28187	\$DP8270-SIMF	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	ug/L
BG28187	\$DP8270-SIMF	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BG28187	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.38	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.38	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.41	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.41	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.75	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.75	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.26	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.26	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.47	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.45	0.02	0.002	0.002	ug/L
BG28187	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.45	0.02	0.002	0.002	ug/L
BG28187	\$DPPEST_GA	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.14	0.10	0.1	0.1	ug/L
BG28187	\$DPPEST_GA	Chlordane	NY / TOGS - Water Quality / GA Criteria	0.14	0.10	0.05	0.05	ug/L
BG28187	\$DPPEST_GA	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.031	0.010	0.01	0.01	ug/L
BG28187	\$DPPEST_GA	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.28	0.010	0.01	0.01	ug/L
BG28187	\$DPPEST_GA	4,4' -DDT	NY / TOGS - Water Quality / GA Criteria	0.28	0.010	0.2	0.2	ug/L
BG28187	\$DPPEST_GA	Dieldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.029	0.01	0.01	ug/L
BG28187	\$DPPEST_GA	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND	0.029	0.004	0.004	ug/L
BG28187	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.20	0.06	0.06	ug/L
BG28187	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.206	0.010	0.1	0.1	mg/L
BG28187	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.13	0.01	0.1	0.1	mg/L
BG28187	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	68.7	0.01	35	35	mg/L
BG28187	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	38.1	1.1	20	20	mg/L
BG28187	D-PB	Lead (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.051	0.002	0.025	0.025	mg/L
BG28187	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	64.7	0.01	35	35	mg/L
BG28187	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	37.1	1.0	20	20	mg/L
BG28187	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.057	0.002	0.025	0.025	mg/L
BG28188	\$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.5	0.5	ug/L
BG28188	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L

Sample Criteria Exceedences Report

GBG28185 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG28188	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BG28188	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BG28188	\$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BG28188	\$8260DP25R	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	3	3	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



NY Temperature Narration

April 15, 2014

SDG I.D.: GBG28185

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

GBG 28185

Shannon - Phoenixlabs

From: Kevin Brussee [kbrussee@ebcincny.com]

Sent: Friday, April 04, 2014 11:42 AM

To: 'Shannon - Phoenixlabs'

Subject: RE: 535 Flushing

Dissolved and total

Kevin Brussee

Senior Project Manager

EBC

Environmental Business Consultants

Ph: 631.504.6000 ext. 114

Fax: 631.924.2870

Cell: 631.338.1749

Kbrussee@ebcincny.com

From: Shannon - Phoenixlabs [mailto:shannon@phoenixlabs.com]

Sent: Friday, April 04, 2014 11:33 AM

To: 'Kevin Brussee'

Subject: 535 Flushing

Kevin,

We picked up groundwater samples for this project today. Can you please tell me if you need both total & dissolved metals for this or only dissolved? Thanks.

Shannon Wilhelm

Phoenix Environmental labs

4/4/2014



Friday, April 11, 2014

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 535 FLUSHING
Sample ID#s: BG28182 - BG28184

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 11, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
 Environmental Business Consultants
 1808 Middle Country Rd
 Ridge NY 11961-2406

Sample Information

Matrix: AIR
 Location Code: EBC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: KB
 Received by: SW
 Analyzed by: see "By" below

Date: 04/03/14 13:30
 04/04/14 15:20

Laboratory Data

SDG ID: GBG28182
 Phoenix ID: BG28182

Project ID: 535 FLUSHING
 Client ID: SG 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	04/08/14	KCA	TO15 1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	04/08/14	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	04/08/14	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	04/08/14	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	04/08/14	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	04/08/14	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	04/08/14	KCA	TO15
1,2,4-Trimethylbenzene	16.7	0.204	82.0	1.00	04/08/14	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	04/08/14	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	04/08/14	KCA	TO15
1,2-Dichloroethane	0.32	0.247	1.29	1.00	04/08/14	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	04/08/14	KCA	TO15
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	04/08/14	KCA	TO15
1,3,5-Trimethylbenzene	9.05	0.204	44.5	1.00	04/08/14	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	04/08/14	KCA	TO15
1,3-Dichlorobenzene	ND	0.166	ND	1.00	04/08/14	KCA	TO15
1,4-Dichlorobenzene	28.7	0.166	172	1.00	04/08/14	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	04/08/14	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	04/08/14	KCA	TO15 1
4-Ethyltoluene	7.52	0.204	36.9	1.00	04/08/14	KCA	TO15 1
4-Isopropyltoluene	0.65	0.182	3.56	1.00	04/08/14	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	04/08/14	KCA	TO15
Acetone	398	0.421	945	1.00	04/08/14	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	04/08/14	KCA	TO15
Benzene	27.8	0.313	88.8	1.00	04/08/14	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	04/08/14	KCA	TO15

Client ID: SG 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromodichloromethane	ND	0.149	ND	1.00	04/08/14	KCA	TO15
Bromoform	ND	0.097	ND	1.00	04/08/14	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	04/08/14	KCA	TO15
Carbon Disulfide	ND	0.321	ND	1.00	04/08/14	KCA	TO15
Carbon Tetrachloride	0.1	0.040	0.629	0.25	04/08/14	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	04/08/14	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	04/08/14	KCA	TO15
Chloroform	ND	0.205	ND	1.00	04/08/14	KCA	TO15
Chloromethane	2.09	0.484	4.31	1.00	04/08/14	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	04/08/14	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	04/08/14	KCA	TO15
Cyclohexane	66.9	0.291	230	1.00	04/08/14	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	04/08/14	KCA	TO15
Dichlorodifluoromethane	0.43	0.202	2.12	1.00	04/08/14	KCA	TO15
Ethanol	815	0.531	1530	1.00	04/08/14	KCA	TO15 1
Ethyl acetate	143	0.278	515	1.00	04/08/14	KCA	TO15 1
Ethylbenzene	42.2	0.230	183	1.00	04/08/14	KCA	TO15
Heptane	64.8	0.244	265	1.00	04/08/14	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	04/08/14	KCA	TO15
Hexane	102	0.284	359	1.00	04/08/14	KCA	TO15
Isopropylalcohol	790	0.407	1940	1.00	04/08/14	KCA	TO15
Isopropylbenzene	2.7	0.204	13.3	1.00	04/08/14	KCA	TO15
m,p-Xylene	167	0.230	725	1.00	04/08/14	KCA	TO15
Methyl Ethyl Ketone	34.1	0.339	100	1.00	04/08/14	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	04/08/14	KCA	TO15
Methylene Chloride	0.66	0.288	2.29	1.00	04/08/14	KCA	TO15
n-Butylbenzene	0.99	0.182	5.43	1.00	04/08/14	KCA	TO15 1
o-Xylene	60.3	0.230	262	1.00	04/08/14	KCA	TO15
Propylene	6.87	0.581	11.8	1.00	04/08/14	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	04/08/14	KCA	TO15 1
Styrene	0.37	0.235	1.58	1.00	04/08/14	KCA	TO15
Tetrachloroethene	0.31	0.037	2.10	0.25	04/08/14	KCA	TO15
Tetrahydrofuran	ND	0.339	ND	1.00	04/08/14	KCA	TO15 1
Toluene	227	0.266	855	1.00	04/08/14	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	04/08/14	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	04/08/14	KCA	TO15
Trichloroethene	0.15	0.047	0.806	0.25	04/08/14	KCA	TO15
Trichlorofluoromethane	4.2	0.178	23.6	1.00	04/08/14	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	04/08/14	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	04/08/14	KCA	TO15
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	107	%	107	%	04/08/14	KCA	TO15

Client ID: SG 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

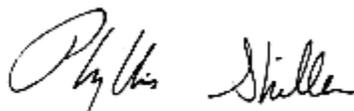
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 11, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 11, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
 Environmental Business Consultants
 1808 Middle Country Rd
 Ridge NY 11961-2406

Sample Information

Matrix: AIR
 Location Code: EBC
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: KB
 Received by: SW
 Analyzed by: see "By" below

Date

04/03/14 13:35
 04/04/14 15:20

Time

Laboratory Data

SDG ID: GBG28182
 Phoenix ID: BG28183

Project ID: 535 FLUSHING
 Client ID: SG 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	04/08/14	KCA	TO15 1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	04/08/14	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	04/08/14	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	04/08/14	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	04/08/14	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	04/08/14	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	04/08/14	KCA	TO15
1,2,4-Trimethylbenzene	1.08	0.204	5.31	1.00	04/08/14	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	04/08/14	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	04/08/14	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	04/08/14	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	04/08/14	KCA	TO15
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	04/08/14	KCA	TO15
1,3,5-Trimethylbenzene	0.37	0.204	1.82	1.00	04/08/14	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	04/08/14	KCA	TO15
1,3-Dichlorobenzene	ND	0.166	ND	1.00	04/08/14	KCA	TO15
1,4-Dichlorobenzene	49.6	0.166	298	1.00	04/08/14	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	04/08/14	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	04/08/14	KCA	TO15 1
4-Ethyltoluene	0.47	0.204	2.31	1.00	04/08/14	KCA	TO15 1
4-Isopropyltoluene	ND	0.182	ND	1.00	04/08/14	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	04/08/14	KCA	TO15
Acetone	419	0.421	995	1.00	04/08/14	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	04/08/14	KCA	TO15
Benzene	7.27	0.313	23.2	1.00	04/08/14	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	04/08/14	KCA	TO15

Client ID: SG 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromodichloromethane	ND	0.149	ND	1.00	04/08/14	KCA	TO15
Bromoform	ND	0.097	ND	1.00	04/08/14	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	04/08/14	KCA	TO15
Carbon Disulfide	ND	0.321	ND	1.00	04/08/14	KCA	TO15
Carbon Tetrachloride	0.09	0.040	0.566	0.25	04/08/14	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	04/08/14	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	04/08/14	KCA	TO15
Chloroform	ND	0.205	ND	1.00	04/08/14	KCA	TO15
Chloromethane	2.15	0.484	4.44	1.00	04/08/14	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	04/08/14	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	04/08/14	KCA	TO15
Cyclohexane	35.2	0.291	121	1.00	04/08/14	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	04/08/14	KCA	TO15
Dichlorodifluoromethane	0.47	0.202	2.32	1.00	04/08/14	KCA	TO15
Ethanol	923	E 0.531	1740	1.00	04/08/14	KCA	TO15 1
Ethyl acetate	222	0.278	799	1.00	04/08/14	KCA	TO15 1
Ethylbenzene	4.49	0.230	19.5	1.00	04/08/14	KCA	TO15
Heptane	12.2	0.244	50.0	1.00	04/08/14	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	04/08/14	KCA	TO15
Hexane	28.1	0.284	99.0	1.00	04/08/14	KCA	TO15
Isopropylalcohol	848	E 0.407	2080	1.00	04/08/14	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	04/08/14	KCA	TO15
m,p-Xylene	15	0.230	65.1	1.00	04/08/14	KCA	TO15
Methyl Ethyl Ketone	37.7	0.339	111	1.00	04/08/14	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	04/08/14	KCA	TO15
Methylene Chloride	0.44	0.288	1.53	1.00	04/08/14	KCA	TO15
n-Butylbenzene	ND	0.182	ND	1.00	04/08/14	KCA	TO15 1
o-Xylene	4.98	0.230	21.6	1.00	04/08/14	KCA	TO15
Propylene	6.79	0.581	11.7	1.00	04/08/14	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	04/08/14	KCA	TO15 1
Styrene	0.48	0.235	2.04	1.00	04/08/14	KCA	TO15
Tetrachloroethene	0.22	0.037	1.49	0.25	04/08/14	KCA	TO15
Tetrahydrofuran	3.35	0.339	9.87	1.00	04/08/14	KCA	TO15 1
Toluene	48.6	0.266	183	1.00	04/08/14	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	04/08/14	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	04/08/14	KCA	TO15
Trichloroethene	0.06	0.047	0.322	0.25	04/08/14	KCA	TO15
Trichlorofluoromethane	1.18	0.178	6.62	1.00	04/08/14	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	04/08/14	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	04/08/14	KCA	TO15
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	106	%	106	%	04/08/14	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

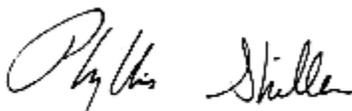
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

April 11, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 11, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
 Environmental Business Consultants
 1808 Middle Country Rd
 Ridge NY 11961-2406

Sample Information

Matrix: AIR
 Location Code: EBC
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: KB
 Received by: SW
 Analyzed by: see "By" below

Date Time
 04/03/14 13:37
 04/04/14 15:20

Laboratory Data

SDG ID: GBG28182
 Phoenix ID: BG28184

Project ID: 535 FLUSHING
 Client ID: SG 3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	04/08/14	KCA	TO15
1,1,1-Trichloroethane	ND	0.183	ND	1.00	04/08/14	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	04/08/14	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	04/08/14	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	04/08/14	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	04/08/14	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	04/08/14	KCA	TO15
1,2,4-Trimethylbenzene	1.96	0.204	9.63	1.00	04/08/14	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	04/08/14	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	04/08/14	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	04/08/14	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	04/08/14	KCA	TO15
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	04/08/14	KCA	TO15
1,3,5-Trimethylbenzene	1.2	0.204	5.90	1.00	04/08/14	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	04/08/14	KCA	TO15
1,3-Dichlorobenzene	ND	0.166	ND	1.00	04/08/14	KCA	TO15
1,4-Dichlorobenzene	60.4	0.166	363	1.00	04/08/14	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	04/08/14	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	04/08/14	KCA	TO15
4-Ethyltoluene	0.93	0.204	4.57	1.00	04/08/14	KCA	TO15
4-Isopropyltoluene	ND	0.182	ND	1.00	04/08/14	KCA	TO15
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	04/08/14	KCA	TO15
Acetone	581	0.421	1380	1.00	04/08/14	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	04/08/14	KCA	TO15
Benzene	11.8	0.313	37.7	1.00	04/08/14	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	04/08/14	KCA	TO15

Client ID: SG 3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromodichloromethane	ND	0.149	ND	1.00	04/08/14	KCA	TO15
Bromoform	ND	0.097	ND	1.00	04/08/14	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	04/08/14	KCA	TO15
Carbon Disulfide	ND	0.321	ND	1.00	04/08/14	KCA	TO15
Carbon Tetrachloride	0.08	0.040	0.503	0.25	04/08/14	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	04/08/14	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	04/08/14	KCA	TO15
Chloroform	ND	0.205	ND	1.00	04/08/14	KCA	TO15
Chloromethane	2.32	0.484	4.79	1.00	04/08/14	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	04/08/14	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	04/08/14	KCA	TO15
Cyclohexane	31.2	0.291	107	1.00	04/08/14	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	04/08/14	KCA	TO15
Dichlorodifluoromethane	0.48	0.202	2.37	1.00	04/08/14	KCA	TO15
Ethanol	818	E 0.531	1540	1.00	04/08/14	KCA	TO15 1
Ethyl acetate	257	0.278	926	1.00	04/08/14	KCA	TO15 1
Ethylbenzene	10.8	0.230	46.9	1.00	04/08/14	KCA	TO15
Heptane	25.2	0.244	103	1.00	04/08/14	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	04/08/14	KCA	TO15
Hexane	37	0.284	130	1.00	04/08/14	KCA	TO15
Isopropylalcohol	762	E 0.407	1870	1.00	04/08/14	KCA	TO15
Isopropylbenzene	0.41	0.204	2.01	1.00	04/08/14	KCA	TO15
m,p-Xylene	34.8	0.230	151	1.00	04/08/14	KCA	TO15
Methyl Ethyl Ketone	40.8	0.339	120	1.00	04/08/14	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	04/08/14	KCA	TO15
Methylene Chloride	0.36	0.288	1.25	1.00	04/08/14	KCA	TO15
n-Butylbenzene	ND	0.182	ND	1.00	04/08/14	KCA	TO15 1
o-Xylene	11.4	0.230	49.5	1.00	04/08/14	KCA	TO15
Propylene	11.7	0.581	20.1	1.00	04/08/14	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	04/08/14	KCA	TO15 1
Styrene	0.58	0.235	2.47	1.00	04/08/14	KCA	TO15
Tetrachloroethene	0.5	0.037	3.39	0.25	04/08/14	KCA	TO15
Tetrahydrofuran	2.83	0.339	8.34	1.00	04/08/14	KCA	TO15 1
Toluene	94.4	0.266	356	1.00	04/08/14	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	04/08/14	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	04/08/14	KCA	TO15
Trichloroethene	0.05	0.047	0.268	0.25	04/08/14	KCA	TO15
Trichlorofluoromethane	4.35	0.178	24.4	1.00	04/08/14	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	04/08/14	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	04/08/14	KCA	TO15
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	106	%	106	%	04/08/14	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

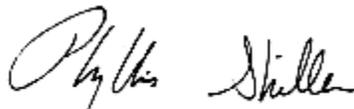
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

April 11, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Sample Criteria Exceedences Report

GBG28182 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



CHAIN OF CUSTODY RECORD AIR ANALYSES

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-1102

Pg. 1 of 1
 Data Delivery:
 Fax #:
 Email: KB.USSE@EBCINC.NY.COM

Report to: EBC
 Address: 1808 MIDDLE COUNTRY RD FIDES, NY 11961
 Project Mgr: KEVIN BRUSSEE
 Phone #: (631) 504-6000

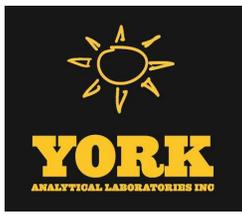
Invoice to: EBC
 Address:
 P.O. #
 Quote #

Project Name:
 Location: 535 FLUSHING
 State: NY
 Sampled by: KB

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	LAB USE ONLY			Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End (" Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	ANALYSES		Is Canister Returned Unused? Y/N
				Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure (" Hg)	Flow Regulator ID #										TO-14	TO-15	
28182	S61	13641	6	30		4988V-3	1153	1330	4/3	30	7							2
28183	S62	13637	6	30		4991V-5	1135	1335	4/3	30	7							2
28184	S63	172	6	30		4992V-4	1144	1337	4/3	30	6							2

Relinquished by: [Signature] Date: 4-14-14
 Accepted by: [Signature] Date: 4-14-15
 Criteria Requested:
 Deliverable: RCP MCP GISKey
 Data Format: Excel Equis PDF Other:

State where samples collected: NY
 Signature: [Signature] Date: 4/3/14
 SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
 I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as typed on the back of this document.



Technical Report

prepared for:

Environmental Business Consultants

1808 Middle Country Rd.

Ridge NY, 11961

Attention: Charles Sosik

Report Date: 09/02/2014

Client Project ID: 535 Flushing Ave Bklyn NY

York Project (SDG) No.: 14H1105

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 09/02/2014
Client Project ID: 535 Flushing Ave Bklyn NY
York Project (SDG) No.: 14H1105

Environmental Business Consultants
1808 Middle Country Rd.
Ridge NY, 11961
Attention: Charles Sosik

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 August 27, 2014 and listed below. The project was identified as your project: **535 Flushing Ave Bklyn 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>
14H1105-01	B2 2-4	Soil	08/27/2014	08/27/2014
14H1105-02	B2 4-6	Soil	08/27/2014	08/27/2014
14H1105-03	B3 2-4	Soil	08/27/2014	08/27/2014
14H1105-04	B3 4-6	Soil	08/27/2014	08/27/2014
14H1105-05	B4 2-4	Soil	08/27/2014	08/27/2014
14H1105-06	B4 4-6	Soil	08/27/2014	08/27/2014

General Notes for York Project (SDG) No.: 14H1105

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: 09/02/2014





Sample Information

Client Sample ID: B2 2-4 **York Sample ID:** 14H1105-01
York Project (SDG) No. 14H1105 **Client Project ID** 535 Flushing Ave Bklyn NY **Matrix** Soil **Collection Date/Time** August 27, 2014 10:00 am **Date Received** 08/27/2014

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	34.4		mg/kg dry	1.20	1.20	1	EPA 6010C	08/29/2014 13:52	08/29/2014 16:26	MW

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	8.57		mg/kg dry	0.360	0.360	1	EPA 6010C	08/29/2014 13:52	08/29/2014 16:26	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	83.4		%	0.100	0.100	1	SM 2540G	09/02/2014 10:00	09/02/2014 16:15	KK

Sample Information

Client Sample ID: B2 4-6 **York Sample ID:** 14H1105-02
York Project (SDG) No. 14H1105 **Client Project ID** 535 Flushing Ave Bklyn NY **Matrix** Soil **Collection Date/Time** August 27, 2014 10:10 am **Date Received** 08/27/2014

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	37.6		mg/kg dry	1.18	1.18	1	EPA 6010C	08/29/2014 13:52	08/29/2014 16:33	MW

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	18.2		mg/kg dry	0.353	0.353	1	EPA 6010C	08/29/2014 13:52	08/29/2014 16:33	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	85.0		%	0.100	0.100	1	SM 2540G	09/02/2014 10:00	09/02/2014 16:15	KK



Sample Information

Client Sample ID: B3 2-4 York Sample ID: 14H1105-03
York Project (SDG) No. 14H1105 Client Project ID 535 Flushing Ave Bklyn NY Matrix Soil Collection Date/Time August 27, 2014 11:00 am Date Received 08/27/2014

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7440-38-2 Arsenic 69.4 mg/kg dry 1.14 1.14 1 EPA 6010C 08/29/2014 13:52 08/29/2014 16:38 MW

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7440-43-9 Cadmium 0.402 mg/kg dry 0.342 0.342 1 EPA 6010C 08/29/2014 13:52 08/29/2014 16:38 MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids * % Solids 87.8 % 0.100 0.100 1 SM 2540G 09/02/2014 10:00 09/02/2014 16:15 KK

Sample Information

Client Sample ID: B3 4-6 York Sample ID: 14H1105-04
York Project (SDG) No. 14H1105 Client Project ID 535 Flushing Ave Bklyn NY Matrix Soil Collection Date/Time August 27, 2014 11:10 am Date Received 08/27/2014

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7440-38-2 Arsenic 55.0 mg/kg dry 1.15 1.15 1 EPA 6010C 08/29/2014 13:52 08/29/2014 16:55 MW

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7440-43-9 Cadmium 0.831 mg/kg dry 0.345 0.345 1 EPA 6010C 08/29/2014 13:52 08/29/2014 16:55 MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids * % Solids 86.9 % 0.100 0.100 1 SM 2540G 09/02/2014 10:00 09/02/2014 16:15 KK



Sample Information

Client Sample ID: B4 2-4

York Sample ID: 14H1105-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14H1105

535 Flushing Ave Bklyn NY

Soil

August 27, 2014 12:00 pm

08/27/2014

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7440-38-2, Arsenic, 40.2, mg/kg dry, 1.16, 1.16, 1, EPA 6010C, 08/29/2014 13:52, 08/29/2014 16:59, MW

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7440-43-9, Cadmium, 0.379, mg/kg dry, 0.349, 0.349, 1, EPA 6010C, 08/29/2014 13:52, 08/29/2014 16:59, MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, * % Solids, 86.1, %, 0.100, 0.100, 1, SM 2540G, 09/02/2014 10:00, 09/02/2014 16:15, KK

Sample Information

Client Sample ID: B4 4-6

York Sample ID: 14H1105-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14H1105

535 Flushing Ave Bklyn NY

Soil

August 27, 2014 12:10 pm

08/27/2014

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7440-38-2, Arsenic, 36.5, mg/kg dry, 1.15, 1.15, 1, EPA 6010C, 08/29/2014 13:52, 08/29/2014 17:04, MW

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7440-43-9, Cadmium, 1.83, mg/kg dry, 0.344, 0.344, 1, EPA 6010C, 08/29/2014 13:52, 08/29/2014 17:04, MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, * % Solids, 87.3, %, 0.100, 0.100, 1, SM 2540G, 09/02/2014 10:00, 09/02/2014 16:15, KK



Notes and Definitions

*	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.



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
Fax (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 1
York Project No. 1441105

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.

YOUR Information Company: <u>EBC</u> Address: <u>Ridge NY</u> Phone No. _____ Attention: _____ E-Mail Address: _____		Report To: Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		YOUR Project ID <u>535 Flushing Ave</u> <u>Bklyn NY</u> Purchase Order No. _____		Turn-Around Time <input type="checkbox"/> 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 Standard (5-7 Days) <input checked="" type="checkbox"/>		Report Type <input checked="" type="checkbox"/> Summary Report <input type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DQA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJDEP Red. Deliv. Electronic Data Deliverables (EDD) <input type="checkbox"/> Simple Excel <input type="checkbox"/> NYSDEC EQULS <input type="checkbox"/> EQULS (std) <input type="checkbox"/> EZ-EDD (EQULS) <input type="checkbox"/> NJDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet Compare to the following Regs. (please fill in): _____	
Volatiles 8260 full 624 STARS list BTEX MTBE TCL list TAGM list CT RCP list Arom. only Halog. only App. IX list 8021B list		Semi-Vols. 8270 or 625 STARS list BN Only Acids Only PAH list TAGM list CT RCP list TCL list NJDEP list App. IX TCLP BNA SPL or TCLP		Metals RCRA8 PPI 3 list TAL CT1.5 list TAGM list NJDEP list Total Dissolved SPL P or TCLP Induc. Metals LIST Below		Misc. Org. TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TICs Methane Helium		Full Lists Pri. Poll. TCL Ograns TAL MetCN Full TCLP Full App. IX Part 360 Routine Part 360 Baseline Part 360 (standard not shown) Aquatic Tox. Part 360 (standard not shown) Full List NYCEP Sewer NYCEP Sewer NYSEDEC Sewer TAGM Silica		Misc. Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Heterotrophs TOX BTU/lb. Aquatic Tox. TOC Asbestos Silica	

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Matrix Codes
 S - soil
 Other - specify (oil, etc.)
 WW - wastewater
 GW - groundwater
 DW - drinking water
 Air-A - ambient air
 Air-SV - soil vapor

Samples Collected/Authorized By (Signature)
[Signature]
 Name (printed)
Kurt

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
B2 2-1	8:26 1000	S	Arsenic / Cadmium	1.403
B2 4-6	1010	↓	↓	↓
B3 2-1	1100	↓	↓	↓
B3 4-6	1110	↓	↓	↓
B4 2-1	1200	↓	↓	↓
B4 4-6	1710	↓	↓	↓

4°C _____ Frozen _____ HCl _____ MeOH _____ HNO₃ _____ NaOH _____
 Ascorbic Acid _____ Other _____
 Date/Time: 8/27/14 9:30
 Samples Relinquished By: [Signature]
 Date/Time: 8/27/14 9:30
 Samples Relinquished By: [Signature]
 Date/Time: 8/27/14 17:00
 Temperature on Receipt: 54 °C

ATTACHMENT F
SUBSURFACE INVESTIGATION
REPORT