

33 FRANKLIN STREET

QUEENS, NEW YORK 11435

Remedial Investigation Report

OER Site Numbers: 19TMP1824K, 19EHAZ391K

Prepared for:

Unique Developers, Inc.
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Prepared by:



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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, Maggie Ellis, 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 33 Franklin Street, Brooklyn, NY Site, (OER Project Numbers 19TMP1824K and 19EHAZ391K). 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.

Maggie Ellis

8/19/2019



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 33 Franklin Street in the Greenpoint section of Brooklyn, New York, and is currently identified as Block 2589 and Lot 13 on the New York City Tax Map. The Site is an irregular-shaped lot located on the west side of Franklin Street, south side of Calyer Street and north side of Quay Street. The Site consists of 129.43 feet of street frontage along Franklin Street, 99.5 feet of frontage along Calyer Street, 81.5 feet of frontage along Quay Street, and a lot depth of approximately 200 ft for a total of approximately 18,537 ft². The Site is bordered a residential building and two mixed use residential storefront buildings to the northeast, a residential building to the southwest, an industrial building to the west, Calyer Street followed by residential buildings to the north, Franklin Street followed by industrial buildings to the east, and Quay Street followed by a parking lot and the MTA Quay Street facility to the south.

Currently the Site is developed with a 1-story warehouse, with mezzanine which is currently utilized as storage for Marlborough Gallery Inc., an art gallery.

Summary of Proposed Redevelopment Plan

The development project consists of demolishing the existing building and redeveloping the lot with a new 4-story mixed-use multi-family residential and commercial building with a full cellar across the entirety of the lot. The cellar will consist of commercial space while the first through fourth floors will consist of residential apartments.

The entire lot will be excavated to 4 ft below sidewalk grade with an additional 3-5 ft for elevator pits/foundation elements. An estimated 2,746 cubic yards (4,119 tons) of soil will require excavation for the new building's cellar.



The water table is between 6.02 to 7.75 feet below grade surface (bgs), and will therefore not be encountered during excavation. The current zoning designation is M1-2/R6B with no commercial overlay. The proposed use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

A Phase I Screening Summary was completed by EBC in March of 2019 and is included in Attachment A. The following Site history was established based on historic Sanborn Maps and City Directory Listings:

The Site was developed with three, 3-story dwellings, with rear yards and one, 2-story stable, fronting to the north along Calyer Street from at least 1887, with a carpenter and Franklin Iron Foundry occupying the rear of the Site. By 1905, one of the dwellings was identified as an office with the remainder of the Site occupied by Burr & Hudson Foundry, including carpentry, storage and modeling. The 2-story stable was identified as vacant. The Site was unmapped in 1922 and 1928. By 1948, the Site was developed with two, 2- to 3 ½-story dwellings and one, 3-story office, with basement, fronting to the north along Calyer Street. An addition 2-story dwelling was developed in a rear yard. The remainder of the Site was developed with portions of the Burr & Huston Co. Foundry, including carpentry, storage, and modeling. By 1951, the 2- to 3 ½-story dwelling had been converted to White Metal Foundry, with two additional 1-story foundry structures in the rear yard. The remainder of the Site was unchanged. By 1965, the majority of the Site was undeveloped, with portions of a factory remaining on the southern border along Quay Street. By 1978, the Site was redeveloped with the existing 1-story manufacturing/warehouse building with a mezzanine, which covered the entirety of the lot. The Sanborn maps identified the building with a new construction date of 1968. The Site remained unchanged from 1978 through 2007. The Site is currently occupied by a one-story warehouse, with mezzanine, which covers the entirety of the lot and is utilized as storage for the Marlborough Gallery Inc, an art gallery. Marlborough Gallery Inc. has occupied the Site since at least 2010.

The Site address (93 Quay Street) was listed in the city directories as being occupied by Marlborough Gallery Inc. from 2010 to 2014. No additional listings of the Site addresses were provided. The surrounding properties were identified as primarily commercial/retail on all sides,

with some manufacturing activity, including a yoga studio, commercial stores, auto repair shop, commercial offices.

EBC's review of historical information identified the presence of several foundries on the Site from at least 1905 until circa 1965. This long-term historic use of the Site is considered to represent a recognized environmental condition (REC) as there is a potential for historic site operations to have impacted soil, groundwater and/or soil vapor quality beneath the Site.

In addition, the following environmental issue was identified for the Site:

- **E-Designation:** The site was listed on the E-Designation database with a HazMat restriction (E-138), which was determined during the Greenpoint-Williamsburg Rezoning completed by the City in May 2005 (CEQR 04DCP003K).

The AOCs identified for this Site include:

1. Historic fill material at depths up to 4 ft.

Summary of the Work Performed under the Remedial Investigation

EBC performed the following scope of work within the boundary of Site in June of 2019:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed nine soil borings and collected 18 soil samples and one duplicate for chemical analysis from the soil borings to evaluate soil quality;
3. Installed four groundwater monitoring wells across the Site and collected four groundwater samples and one duplicate for chemical analysis to evaluate groundwater quality; and
4. Installed seven soil vapor probes across the Site and collected seven soil vapor samples for chemical analysis.

Summary of Environmental Findings

1. The elevation of the Site is between 0 to 7 feet above mean sea level;
2. Depth to groundwater is between 6.02 to 7.75 feet below sidewalk grade;



3. Based on regional groundwater contour maps, groundwater is expected to flow southwest;
4. Depth to bedrock at the Site is greater than 100 feet;
5. The stratigraphy of the Site consists of urban fill material consisting of brown sand, asphalt, brick and concrete to depths as great as 4 ft followed by native soils consisting of brown sand and gray silty sand;
6. Soil/fill samples were collected during the July 2019 investigation and results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples showed the following:
 - The VOCs tetrachloroethene (2,500 µg/Kg) and trichloroethene (520 µg/Kg) were detected above UUSCOs in SB5(0-2'). No additional VOCs were detected above UUSCOs or RRSCOs in any samples. However, acetone, benzene, naphthalene, and toluene were detected at trace concentrations in several soil samples;
 - The SVOCs benz(a)anthracene (maximum [max.] of 1,800 µg/Kg), benzo(a)pyrene (max. of 3,200 µg/Kg), benzo(b)fluoranthene (max. of 5,100 µg/Kg), benzo(k)fluoranthene (max. of 2,400 µg/Kg), chrysene (max. of 4,800 µg/Kg), dibenz(a,h)anthracene (max. of 820 µg/Kg) and indeno(1,2,3-cd)pyrene (max. of 2,500) were detected above UUSCOs in several samples. Of these, all but benzo(k)fluoranthene were detected above RRSCOs. No additional SVOCs were detected above UUSCOs or RRSCOs. However, trace concentrations of several SVOCs were detected several soil samples;
 - Several metals including: arsenic (max. of 19.6 mg/Kg), barium (max. of 718 mg/Kg), cadmium (max. of 6.56 mg/Kg), chromium (max. of 43.7 mg/Kg), copper (max. of 166 mg/Kg), lead (max. of 739 mg/Kg), mercury (max. of 15 mg/Kg) and zinc (max. of 1,300 mg/Kg) were detected above UUSCOs in several samples. Of these samples, arsenic, barium, cadmium, lead and mercury were detected above RRSCOs;
 - No PCBs or pesticides were detected in any soil samples;
 - No PFAs were detected within SB6(5-7').

- Overall, the soil results were consistent with data identified at sites with historic fill material and native soil in NYC.
7. Groundwater samples were collected during the July 2019 investigations and results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater samples showed the following:
- Trace amounts of the VOCs 1,4-dioxane, carbon disulfide and methyl t-butyl ether were detected in several groundwater samples. No VOCs were detected above GQS;
 - The SVOCs benz(a)anthracene (max. of 0.08 µg/L), benzo(a)pyrene (max. of 0.08 µg/L), benzo(k)fluoranthene (max. of 0.06 µg/L), chrysene (max. of 0.09 µg/L) and indeno(1,2,3-cd)pyrene (max. of 0.07 µg/L) were detected above GQS in MW1 and MW2. No additional SVOCs were detected in any groundwater sample;
 - The pesticides 4,4-DDE (at 0.044 µg/L), 4,4-DDT (at 0.24 µg/L), chlordane (at 6.4 µg/L) and heptachlor epoxide (0.32 µg/L) were detected above GQS in two of the groundwater samples collected. No additional pesticides were detected in any groundwater sample;
 - Several dissolved (filtered) metals were identified, with iron (max. of 2.93 µg/L), manganese (max. of 3.18 mg/L) and sodium (max. of 326 mg/L) detected above GQS in dissolved samples;
 - No PCBs were detected in any groundwater samples;
 - Total PFAs within the MW1 sample were noted at 99.22 ng/L.
8. Soil vapor results collected during the July 2019 investigation were compared to the compounds listed in Table 3.1 Air Guidance Values derived by the New York State Department of Health (NYSDOH) located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006 and the revised NYSDOH Decision Matrices dated May 2017. Soil vapor results indicated moderate levels of petroleum-related VOCs and low levels of chlorinated VOCs:
- Total concentrations of petroleum-related VOCs (BTEX) within the seven soil vapor samples ranged from 179.86 µg/m³ to 327.35 µg/m³;
 - The chlorinated solvents detected include: 1,1,1-Trichloroethane, which ranged from 11.3 to 122 µg/m³; carbon tetrachloride, which ranged from 0.27 to 4.72 µg/m³; cis-1,2-dichloroethene, which was detected in one sample at 0.42 µg/m³; methylene

chloride, which was detected in one sample at 3.27 $\mu\text{g}/\text{m}^3$; tetrachloroethene (PCE), which ranged from 7.52 to 60.1 $\mu\text{g}/\text{m}^3$; and trichloroethene (TCE), which ranged from 0.33 to 13.6 $\mu\text{g}/\text{m}^3$;

- The chlorinated VOCs 1,1-dichloroethene and vinyl chloride were not detected within any of the soil vapor samples;
- Concentrations of the chlorinated VOCs 1,1,1-Trichloroethane, PCE and TCE were above the monitoring level ranges established within the NYSDOH soil vapor guidance matrices.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Unique Developers, Inc. has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.161-acre Site located at 33 Franklin Street in the Greenpoint section of Brooklyn, New York. The Site will be redeveloped with a new 4-story mixed-use commercial and residential building. The RI work was conducted on the Site in July of 2019. 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 33 Franklin Street in the Greenpoint section of Brooklyn, New York, and is currently identified as Block 2589 and Lot 13 on the New York City Tax Map. The Site is an irregular-shaped lot located on the west side of Franklin Street, south side of Calyer Street and north side of Quay Street. The Site consists of 129.43 feet of street frontage along Franklin Street, 99.5 feet of frontage along Calyer Street, 81.5 feet of frontage along Quay Street, and a lot depth of approximately 200 ft for a total of approximately 18,537 ft². The Site is bordered a residential building and two mixed use residential storefront buildings to the northeast, a residential building to the southwest, an industrial building to the west, Calyer Street followed by residential buildings to the north, Franklin Street followed by industrial buildings to the east, and Quay Street followed by a parking lot and the MTA Quay Street facility to the south.

Currently the Site is developed with a 1-story warehouse, with mezzanine which is currently utilized as storage for Marlborough Gallery Inc., an art gallery.

1.2 Proposed Redevelopment Plan

The development project consists of demolishing the existing building and redeveloping the lot with a new 4-story mixed-use multi-family residential and commercial building with a full cellar across the entirety of the lot. The cellar will consist of commercial space while the first through fourth floors will consist of residential apartments.

The entire lot will be excavated to 4 ft below sidewalk grade with an additional 3-5 ft for elevator pits/foundation elements. An estimated 2,746 cubic yards (4,119 tons) of soil will require excavation for the new building's cellar.

The water table is between 6.02 to 7.75 feet below grade surface (bgs), and will therefore not be encountered during excavation. The current zoning designation is M1-2/R6B with no commercial overlay. The proposed use is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

The area immediately surrounding Site consists of residential buildings to the north and east, mixed commercial and residential buildings to the west and industrial buildings to the south. 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 500 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Across Calyer Street	<u>Block 2571, Lots 30-34 - 75 to 83 Calyer Street</u> Five, 2,202 to 2,700 ft ² lots each developed with a 1 & 2-family residential building.
East – Adjacent Properties and across Franklin Street	<u>Block 2589, Lots 14-16 – 43 to 47 Franklin Street</u> Three, 1,686 to 2,209 ft ² lots each developed with a mixed-use commercial and residential building <u>Block 2592, Lots 11-16 – 30 to 40 Franklin Street</u> Four, 2,587 to 8,060 ft ² lots each developed with an industrial building.
South – Across Quay Street	<u>Block 2590, Lot 210 – 27 Franklin Street</u> A 6,288 ft ² lot developed with an asphalt-paved parking lot.
West – Adjacent properties	<u>Block 2589, Lot 5 – 64 Calyer Street</u> A 17,550 ft ² lot developed with a multi-unit commercial and industrial building. <u>Block 2589, Lot 23 – 85 Quay Street</u> A 6,000 ft ² lot developed with a multi-family walkup

2.0 SITE HISTORY

2.1 Past Uses and Ownership

A Phase I Screening Summary was completed by EBC in March of 2019 and is included in Attachment A. The following Site history was established based on historic Sanborn Maps and City Directory Listings:

The Site was developed with three, 3-story dwellings, with rear yards and one, 2-story stable, fronting to the north along Calyer Street from at least 1887, with a carpenter and Franklin Iron Foundry occupying the rear of the Site. By 1905, one of the dwellings was identified as an office with the remainder of the Site occupied by Burr & Hudson Foundry, including carpentry, storage and modeling. The 2-story stable was identified as vacant. The Site was unmapped in 1922 and 1928. By 1948, the Site was developed with two, 2- to 3 ½-story dwellings and one, 3-story office, with basement, fronting to the north along Calyer Street. An addition 2-story dwelling was developed in a rear yard. The remainder of the Site was developed with portions of the Burr & Huston Co. Foundry, including carpentry, storage, and modeling. By 1951, the 2- to 3 ½-story dwelling had been converted to White Metal Foundry, with two additional 1-story foundry structures in the rear yard. The remainder of the Site was unchanged. By 1965, the majority of the Site was undeveloped, with portions of a factory remaining on the southern border along Quay Street. By 1978, the Site was redeveloped with the existing 1-story manufacturing/warehouse building with a mezzanine, which covered the entirety of the lot. The Sanborn maps identified the building with a new construction date of 1968. The Site remained unchanged from 1978 through 2007. The Site is currently occupied by a one-story warehouse, with mezzanine, which covers the entirety of the lot and is utilized as storage for the Marlborough Gallery Inc, an art gallery. Marlborough Gallery Inc. has occupied the Site since at least 2010.

The Site address (93 Quay Street) was listed in the city directories as being occupied by Marlborough Gallery Inc. from 2010 to 2014. No additional listings of the Site addresses were provided. The surrounding properties were identified as primarily commercial/retail on all sides, with some manufacturing activity, including a yoga studio, commercial stores, auto repair shop, commercial offices.

EBC's review of historical information identified the presence of several foundries on the Site from at least 1905 until circa 1965. This long-term historic use of the Site is considered to represent a recognized environmental condition (REC) as there is a potential for historic site operations to have impacted soil, groundwater and/or soil vapor quality beneath the Site.

In addition, the following environmental issue was identified for the Site:

- **E-Designation:** The site was listed on the E-Designation database with a HazMat restriction (E-138), which was determined during the Greenpoint-Williamsburg Rezoning completed by the City in May 2005 (CEQR 04DCP003K).

2.2 Previous Investigations

EBC is not aware of any previous investigations performed at the Site.

2.3 Site Inspection

EBC representative Maggie Ellis inspected the Site on February 28, 2019. The reconnaissance included a visual inspection of the property, the sidewalk area immediately adjacent to the Site, and the exteriors of adjacent/surrounding properties. At the time of the inspection, the Site consisted of a single, irregular-shaped tax lot, which is developed with a single 1-story commercial building, with a mezzanine and no basement. The Site is accessible via pedestrian and roll-up door entrances along Franklin Street to the east, Calyer Street to the north and Quay Street to the south. The Site building is currently occupied by Marlborough Gallery Inc, an art gallery, and consisted of storage, a bathroom and maintenance space. The current use of the Site is considered unlikely to represent a significant environmental concern.

The Site building is currently heated via natural gas-fired ceiling-mounted space heaters. EBC observed no visual evidence that would indicate the existence of current or former underground or aboveground storage tanks (USTs/ASTs) during the Site inspection. In addition, the interviews and regulatory database review completed for this assessment did not reveal evidence of current or former USTs or ASTs on-Site.

No interior floor drains or storm drains were observed on-Site. Storm water from the Site flows to curbside drains along the adjacent roadway (Cook Street). No suspect asbestos-containing material (ACM) was observed during the Site inspection. However, due to the age of the Site building, it is possible that roofing, roof flashing and other (inaccessible) building materials may contain asbestos. A visual inspection of painted surfaces conducted during the Site inspection indicated that interior paints throughout the Site building were generally in good to fair condition, with some worn paint and chipping/peeling observed. Exterior surfaces were comprised primarily of unpainted brick. Due to the age of the Site building, the presence of lead-based paint (LBP) is possible. As the Site building is used for commercial purposes, suspect LBP is not considered to represent a significant environmental concern. No evidence of water leaks, water damage or mold was observed on-Site.

2.4 Areas of Concern

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

1. Historic fill material at varying depths up to 4 ft.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Maggie Ellis.

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 within the boundary of Site in June of 2019:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed nine soil borings and collected 18 soil samples and one duplicate for chemical analysis from the soil borings to evaluate soil quality;
3. Installed four groundwater monitoring wells across the Site and collected four groundwater samples and one duplicate for chemical analysis to evaluate groundwater quality; and
4. Installed seven soil vapor probes across the Site and collected seven soil vapor samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical investigation was not performed as a part of this assessment based on the intended redevelopment plan for the site.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

Between July 23, 2019, and July 24, 2019, nine soil borings (SB1 through SB9) were installed by Eastern Environmental Solutions in the approximate locations shown on Figure 5. The location of soil borings SB1 through SB9 were chosen to gain representative soil quality information across the Site. Soil samples were collected continuously from grade to a final depth of 9 ft below existing grade for borings SB1 and SB5 using a track-mounted Geoprobe™ Model 430M with a 3 ft long steel macro-core sampler with disposable acetate liners. Soil samples were collected continuously from grade to a final depth of 10 ft below existing grade for borings SB6, SB7, SB8, SB9 and to a final depth of 15 ft below existing grade for borings SB2, SB3 and SB4 using a track-mounted Geoprobe™ Model 6610DT with a 5 ft long steel macro-core sampler with disposable acetate liners. 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. Soil samples were retained for laboratory analysis from all nine soil borings from the intervals 0 to 2 feet and 5 to 7 feet below grade. Soil Boring Logs are included in Attachment C.

Groundwater Monitoring Well Construction

Four temporary 1-inch diameter PVC monitoring wells (MW1 through MW4) with 10 feet of 0.010 slot screen set to intersect the water table were installed by Eastern Environmental Solutions at the approximate locations shown on Figure 5. Since groundwater was encountered between 6.002 to 7.75 feet below grade, monitoring wells were installed to a depth of approximately 15 feet below sidewalk grade. 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 four 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, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Eighteen soil samples and one duplicate were collected for chemical analysis during this RI. Each boring was submitted for analysis of the intervals 0 to 2 feet and 5 to 7 feet below grade.

All samples were analyzed for VOCs, including 1,4-dioxane, SVOCs, pesticides, PCBs and metals, with SB6 (5-7') also analyzed for PFAs. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 2 through 6. 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 eighteen soil samples and one duplicate 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).

Groundwater Sampling

Four groundwater samples (MW1 through MW4) with one duplicate were collected for chemical analysis during this RI. Groundwater samples were collected from the monitoring wells utilizing dedicated polyethylene tubing and a peristaltic pump. Groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix for analysis of VOCs, including 1,4-dioxane, by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and TAL metals. One groundwater sample (MW1) was analyzed for PFAs. Groundwater sample collection data is reported in Tables 7 through 12. 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

Five soil vapor probes were installed and seven soil vapor samples (SV1 through SV7) were collected for chemical analysis during this RI. The seven soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 12, 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*.

On July 23 and July 24, 2019, seven five soil vapor probes were installed using Geoprobe™ equipment and tooling. The vapor probes that were installed were the Geoprobe™ Model 213859, which are constructed of a 6-inch length of double woven stainless steel wire. The soil vapor probes were installed at a depth of 4-5 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 seven soil vapor probes was conducted on July 24, 2019. 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 soil vapor probe 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 five 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 five soil vapor probes. 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 (approximately 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

The 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: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs, including 1,4-dioxane 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); • PFAs Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater, and soil vapor are summarized in Tables 2 through 13. 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

Urban fill material consisting of brown sand, asphalt, brick and concrete to depths as great as 4 ft followed by native soils consisting of brown sand and gray silty sand.

Hydrogeology

A table of water level data for monitoring wells MW1 through MW4 is included in Table 1. The average depth to groundwater is 7.09 feet below grade. Based on regional groundwater contour maps, groundwater is expected to flow southwest.

5.2 Soil Chemistry

Data collected during the Remedial Investigation is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 2 through 6. 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 results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51.

- The VOCs tetrachloroethene (2,500 µg/Kg) and trichloroethene (520 µg/Kg) were detected above UUSCOs in SB5(0-2'). No additional VOCs were detected above UUSCOs or RRSCOs in any samples. However, acetone, benzene, naphthalene, and toluene were detected at trace concentrations in several soil samples;
- The SVOCs benz(a)anthracene (maximum [max.] of 1,800 µg/Kg), benzo(a)pyrene (max. of 3,200 µg/Kg), benzo(b)fluoranthene (max. of 5,100 µg/Kg), benzo(k)fluoranthene (max. of 2,400 µg/Kg), chrysene (max. of 4,800 µg/Kg), dibenz(a,h)anthracene (max. of 820 µg/Kg) and indeno(1,2,3-cd)pyrene (max. of 2,500) were detected above UUSCOs in several samples. Of these, all but benzo(k)fluoranthene were detected above RRSCOs. No additional SVOCs were

detected above UUSCOs or RRSCO. However, trace concentrations of several SVOCs were detected several soil samples;

- Several metals including: arsenic (max. of 19.6 mg/Kg), barium (max. of 718 mg/Kg), cadmium (max. of 6.56 mg/Kg), chromium (max. of 43.7 mg/Kg), copper (max. of 166 mg/Kg), lead (max. of 739 mg/Kg), mercury (max. of 15 mg/Kg) and zinc (max. of 1,300 mg/Kg) were detected above UUSCOs in several samples. Of these samples, arsenic, barium, cadmium, lead and mercury were detected above RRSCO;
- No PCBs or pesticides were detected in any soil samples;
- No PFAs were detected within SB6(5-7').
- Overall, the soil results were consistent with data identified at sites with historic fill material and native soil in NYC.

Overall, the soil results were consistent with data identified at sites with historic fill material and native soil in NYC.

5.3 Groundwater Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Tables 7 through 12. Figure 7 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

Groundwater sample results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS).

- Trace amounts of the VOCs 1,4-dioxane, carbon disulfide and methyl t-butyl ether were detected in several groundwater samples. No VOCs were detected above GQS;
- The SVOCs benz(a)anthracene (max. of 0.08 µg/L), benzo(a)pyrene (max. of 0.08 µg/L), benzo(k)fluoranthene (max. of 0.06 µg/L), chrysene (max. of 0.09 µg/L) and indeno(1,2,3-cd)pyrene (max. of 0.07 µg/L) were detected above GQS in MW1 and MW2. No additional SVOCs were detected in any groundwater sample;
- The pesticides 4,4-DDE (at 0.044 µg/L), 4,4-DDT (at 0.24 µg/L), chlordane (at 6.4 µg/L) and heptachlor epoxide (0.32 µg/L) were detected above GQS in two of the

groundwater samples collected. No additional pesticides were detected in any groundwater sample;

- Several dissolved (filtered) metals were identified, with iron (max. of 2.93 µg/L), manganese (max. of 3.18 mg/L) and sodium (max. of 326 mg/L) detected above GQS in dissolved samples;
- No PCBs were detected in any groundwater samples;
- Total PFAs within the MW1 sample were noted at 99.22 ng/L.

5.4 Soil Vapor Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 13. Figure 8 shows the location and posts the values for soil vapor samples with detected concentrations.

Soil vapor results collected during the July 2019 RI were compared to the compounds listed in Table 3.1 Air Guidance Values derived by the New York State Department of Health (NYSDOH) located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006 and the revised NYSDOH Decision Matrices dated May 2017. Soil vapor results indicated moderate levels of petroleum-related VOCs and low levels of chlorinated VOCs:

- Total concentrations of petroleum-related VOCs (BTEX) within the seven soil vapor samples ranged from 179.86 µg/m³ to 327.35 µg/m³;
- The chlorinated solvents detected include: 1,1,1-Trichloroethane, which ranged from 11.3 to 122 µg/m³; carbon tetrachloride, which ranged from 0.27 to 4.72 µg/m³; cis-1,2-dichloroethene, which was detected in one sample at 0.42 µg/m³; methylene chloride, which was detected in one sample at 3.27 µg/m³; tetrachloroethene (PCE), which ranged from 7.52 to 60.1 µg/m³; and trichloroethene (TCE), which ranged from 0.33 to 13.6 µg/m³;
- The chlorinated VOCs 1,1-dichloroethene and vinyl chloride were not detected within any of the soil vapor samples;
- Concentrations of the chlorinated VOCs 1,1,1-Trichloroethane, PCE and TCE were above the monitoring level ranges established within the NYSDOH soil vapor guidance matrices.

5.5 Prior Activity

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

5.6 Impediments to Remedial Action

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

TABLES

Table 1
33 Franklin Street,
Brooklyn, NY
Soil Boring / Well Information

SAMPLE ID	Date	Total Depth (ft)	Diameter (in)	Construction Materials	Screen Length (ft)	DTW (ft)	DTP	Survey Reading	Casing Elevation	GW ELV
SB1	7/24/2019	9	2	Geoprobe 430M	-	-	-	-	-	-
SB2	7/23/2019	15	2	Geoprobe 6610 DT	-	-	-	-	-	-
SB3	7/23/2019	15	2	Geoprobe 6610 DT	-	-	-	-	-	-
SB4	7/23/2019	15	2	Geoprobe 6610 DT	-	-	-	-	-	-
SB5	7/24/2019	9	2	Geoprobe 430M	-	-	-	-	-	-
SB6	7/23/2019	10	2	Geoprobe 6610 DT	-	-	-	-	-	-
SB7	7/23/2019	10	2	Geoprobe 6610 DT	-	-	-	-	-	-
SB8	7/23/2019	10	2	Geoprobe 6610 DT	-	-	-	-	-	-
SB9	7/23/2019	15	2	Geoprobe 6610 DT	-	-	-	-	-	-
MW1	7/24/2019	15	1	PVC	10.00	7.75	-	-	-	-
MW2	7/23/2019	15	1	PVC	10.00	6.94	-	-	-	-
MW3	7/23/2019	15	1	PVC	10.00	6.02	-	-	-	-
MW4	7/23/2019	15	1	PVC	10.00	7.64	-	-	-	-

Table 2
33 Franklin Street,
Brooklyn, NY
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*	SB1				SB2				SB3				SB4				SB5			
			(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')	
			7/24/2019		7/24/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/23/2019		7/24/2019		7/24/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			<22	22	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<25	25	<410	410
1,1,1-Trichloroethane	680	100,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	0.58	4.6	<6.2	6.2	<410	410
1,1,2,2-Tetrachloroethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,1,2-Trichloroethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,1-Dichloroethane	270	26,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<270	270
1,1-Dichloroethene	330	100,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<330	330
1,1-Dichloropropene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,2,3-Trichlorobenzene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,2,3-Trichloropropane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,2,4-Trichlorobenzene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,2,4-Trimethylbenzene	3,600	52,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,2-Dibromo-3-chloropropane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,2-Dibromomethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<8.0	8.0	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,2-Dichlorobenzene	1,100	100,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,2-Dichloroethane	20	3,100	<5.5	5.5	<8.6	8.6	<5.2	5.2	<20	20	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<41	41
1,2-Dichloropropane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,3,5-Trimethylbenzene	8,400	52,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,3-Dichlorobenzene	2,400	4,900	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,3-Dichloropropane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,4-Dichlorobenzene	1,800	13,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
1,4-dioxane	100	13,000	<83	83	<100	100	<78	78	<100	100	<70	70	<80	80	<79	79	<69	69	<92	92	<3300	3,300
2,2-Dichloropropane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
2-Chlorotoluene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
2-Hexanone (Methyl Butyl Ketone)			<28	28	<43	43	<26	26	<100	100	<23	23	<27	27	<26	26	<23	23	<31	31	<2100	2,100
2-Isopropyltoluene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
4-Chlorotoluene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
4-Methyl-2-Pentanone			<28	28	<43	43	<26	26	<100	100	<23	23	<27	27	<26	26	<23	23	<31	31	<2100	2,100
Acetone	50	100,000	<28	28	<43	43	10	26	<50	50	7.9	23	11	27	8.4	26	<23	23	<31	31	<410	410
Acrolein			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Acrylonitrile			<22	22	<17	17	<10	10	<41	41	<9.4	9.4	<11	11	<11	11	<9.2	9.2	<25	25	<830	830
Benzene	60	4,800	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<60	60
Bromobenzene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Bromochloromethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Bromodichloromethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Bromoform			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Bromomethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Carbon Disulfide			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Carbon tetrachloride	760	2,400	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Chlorobenzene	1,100	100,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Chloroethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Chloroform	370	49,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<370	370
Chloromethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
cis-1,2-Dichloroethene	250	100,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<250	250
cis-1,3-Dichloropropene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Dibromochloromethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Dibromomethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Dichlorodifluoromethane			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Ethylbenzene	1,000	41,000	<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Hexachlorobutadiene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
Isopropylbenzene			<5.5	5.5	<8.6	8.6	<5.2	5.2	<21	21	<4.7	4.7	<5.3	5.3	<5.3	5.3	<4.6	4.6	<6.2	6.2	<410	410
m&p-Xylenes	260	100,000	<5.5	5.5	<8.6	8.6	<5.															

Table 2
33 Franklin Street,
Brooklyn, NY
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*	SB6				SB7				SB8				SB9				Duplicate	
			(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		7/22/2019	
			7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019	7/22/2019
			µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
1,1,1,2-Tetrachloroethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,1,1-Trichloroethane	680	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,1,2,2-Tetrachloroethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,1,2-Trichloroethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,1-Dichloroethane	270	26,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,1-Dichloroethene	330	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,1-Dichloropropene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,2,3-Trichlorobenzene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,2,3-Trichloropropane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,2,4-Trichlorobenzene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,2,4-Trimethylbenzene	3,600	52,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,2-Dibromo-3-chloropropane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,2-Dibromomethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,2-Dichlorobenzene	1,100	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,2-Dichloroethane	20	3,100	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,2-Dichloropropane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,3,5-Trimethylbenzene	8,400	52,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,3-Dichlorobenzene	2,400	4,900	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,3-Dichloropropane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,4-Dichlorobenzene	1,800	13,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
1,4-dioxane	100	13,000	<66	66	<60	60	<100	100	<67	67	<73	73	<64	64	<73	73	<66	66	<73	73
2,2-Dichloropropane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
2-Chlorotoluene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
2-Hexanone (Methyl Butyl Ketone)			<22	22	<20	20	<34	34	<22	22	<24	24	<21	21	<24	24	<22	22	<24	24
2-Isopropyltoluene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
4-Chlorotoluene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
4-Methyl-2-Pentanone			<22	22	<20	20	<34	34	<22	22	<24	24	<21	21	<24	24	<22	22	<24	24
Acetone	50	100,000	21	22	6.4	20	7.1	24	<22	22	11	24	12	21	7	24	<22	22	15	24
Acrolein			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Acrylonitrile			<8.9	8.9	<8.0	8.0	<14	14	<9.0	9.0	<9.7	9.7	<8.5	8.5	<9.8	9.8	<8.8	8.8	<9.8	9.8
Benzene	60	4,800	<4.4	4.4	<4.0	4.0	1.4	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Bromobenzene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Bromochloromethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Bromodichloromethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Bromoform			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Bromomethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Carbon Disulfide			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Carbon tetrachloride	760	2,400	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Chlorobenzene	1,100	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Chloroethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Chloroform	370	49,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Chloromethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
cis-1,2-Dichloroethene	250	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
cis-1,3-Dichloropropene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Dibromochloromethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Dibromomethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Dichlorodifluoromethane			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Ethylbenzene	1,000	41,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Hexachlorobutadiene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Isopropylbenzene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
m,p-Xylenes	260	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Methyl Ethyl Ketone (2-Butanone)	120	100,000	<27	27	<24	24	<41	41	<27	27	<29	29	<25	25	<29	29	<27	27	<29	29
Methyl t-butyl ether (MTBE)	930	100,000	<8.9	8.9	<8.0	8.0	<14	14	<9.0	9.0	<9.7	9.7	<8.5	8.5	<9.8	9.8	<8.8	8.8	<9.8	9.8
Methylene chloride	50	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
Naphthalene			<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
n-Butylbenzene	12,000	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
n-Propylbenzene	3,900	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.9
o-Xylene	260	100,000	<4.4	4.4	<4.0	4.0	<6.8	6.8	<4.5	4.5	<4.8	4.8	<4.2	4.2	<4.9	4.9	<4.4	4.4	<4.9	4.

Table 3
33 Franklin Street,
Brooklyn, NY
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*	SB1				SB2				SB3				SB4				SB5			
			(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')	
			7/24/2019		7/24/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/24/2019		7/24/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
1,2-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
1,3-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
1,4-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 190	190	< 210	210	< 170	170	< 170	170	< 170	170	< 190	190	< 180	180	< 180	180
2,4-Dichlorophenol			< 180	180	< 180	180	< 190	190	< 210	210	< 170	170	< 170	170	< 170	170	< 190	190	< 180	180	< 180	180
2,4-Dimethylphenol			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
2,4-Dinitrophenol			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
2,4-Dinitrotoluene			< 180	180	< 180	180	< 190	190	< 210	210	< 170	170	< 170	170	< 170	170	< 190	190	< 180	180	< 180	180
2,6-Dinitrotoluene			< 180	180	< 180	180	< 190	190	< 210	210	< 170	170	< 170	170	< 170	170	< 190	190	< 180	180	< 180	180
2-Chloronaphthalene			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
2-Chlorophenol			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
2-Methylnaphthalene			540	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	230	250	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
2-Nitroaniline			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
2-Nitrophenol			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
3&4-Methylphenol (m&p-cresol)	330	100,000	< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 190	190	< 210	210	< 170	170	< 170	170	< 170	170	< 190	190	< 180	180	< 180	180
3-Nitroaniline			< 370	370	< 350	350	< 370	370	< 410	410	< 350	350	< 340	340	< 340	340	< 380	380	< 360	360	< 360	360
4,6-Dinitro-2-methylphenol			< 220	220	< 210	210	< 220	220	< 250	250	< 210	210	< 210	210	< 200	200	< 230	230	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
4-Chloroaniline			< 290	290	< 280	280	< 300	300	< 330	330	< 280	280	< 270	270	< 270	270	< 300	300	< 290	290	< 290	290
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
4-Nitroaniline			< 370	370	< 350	350	< 370	370	< 410	410	< 350	350	< 340	340	< 340	340	< 380	380	< 360	360	< 360	360
4-Nitrophenol			< 370	370	< 350	350	< 370	370	< 410	410	< 350	350	< 340	340	< 340	340	< 380	380	< 360	360	< 360	360
Acenaphthene	20,000	100,000	480	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	190	250	< 250	250
Acenaphthylene	100,000	100,000	920	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	220	250	< 250	250
Acetophenone			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
Aniline			< 290	290	< 280	280	< 300	300	< 330	330	< 280	280	< 270	270	< 270	270	< 300	300	< 290	290	< 290	290
Anthracene	100,000	100,000	1,600	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	500	250	< 250	250
Benz(a)anthracene	1,000	1,000	1,800	260	< 250	250	560	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	1,200	250	< 250	250
Benztidine			< 370	370	< 350	350	< 370	370	< 410	410	< 350	350	< 340	340	< 340	340	< 380	380	< 360	360	< 360	360
Benzo(a)pyrene	1,000	1,000	3,200	180	< 180	180	600	190	< 210	210	< 170	170	< 170	170	< 170	170	< 190	190	1,200	180	< 180	180
Benzo(b)fluoranthene	1,000	1,000	5,100	260	< 250	250	600	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	1,100	250	< 250	250
Benzo(ghi)perylene	100,000	100,000	1,900	260	< 250	250	500	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	790	250	< 250	250
Benzo(k)fluoranthene	800	3,900	2,400	260	< 250	250	560	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	1,000	250	< 250	250
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 2100	2,100	< 1700	1,700	< 1700	1,700	< 1700	1,700	< 1900	1,900	< 1800	1,800	< 1800	1,800
Benzy butyl phthalate			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 190	190	< 210	210	< 170	170	< 170	170	< 170	170	< 190	190	< 180	180	< 180	180
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 260	260	< 290	290	< 240	240	< 240	240	< 240	240	< 260	260	< 250	250	< 250	250
Bis(2-ethylhexyl)phthalate			51,000	2,600	< 2																	

Table 3
33 Franklin Street,
Brooklyn, NY
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*	SB6				SB7				SB8				SB9				Duplicate	
			(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')			
			7/22/2019		7/22/2019		7/22/2019		7/23/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019			
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg			
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
1,2,4-Trichlorobenzene			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
1,2-Dichlorobenzene			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
1,2-Diphenylhydrazine			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
1,3-Dichlorobenzene			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
1,4-Dichlorobenzene			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
2,4,5-Trichlorophenol			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
2,4,6-Trichlorophenol			< 170	170	< 170	170	< 180	180	< 190	190	< 170	170	< 180	180	< 180	180	< 190	190	< 170	170
2,4-Dichlorophenol			< 170	170	< 170	170	< 180	180	< 190	190	< 170	170	< 180	180	< 180	180	< 190	190	< 170	170
2,4-Dimethylphenol			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
2,4-Dinitrophenol			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
2,4-Dinitrotoluene			< 170	170	< 170	170	< 180	180	< 190	190	< 170	170	< 180	180	< 180	180	< 190	190	< 170	170
2,6-Dinitrotoluene			< 170	170	< 170	170	< 180	180	< 190	190	< 170	170	< 180	180	< 180	180	< 190	190	< 170	170
2-Chloronaphthalene			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
2-Chlorophenol			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
2-Methylnaphthalene			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
2-Methylphenol (o-cresol)	330	100,000	< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
2-Nitroaniline			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
2-Nitrophenol			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
3&4-Methylphenol (m&p-cresol)	330	100,000	< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
3,3'-Dichlorobenzidine			< 170	170	< 170	170	< 180	180	< 190	190	< 170	170	< 180	180	< 180	180	< 190	190	< 170	170
3-Nitroaniline			< 340	340	< 350	350	< 360	360	< 380	380	< 340	340	< 360	360	< 360	360	< 390	390	< 340	340
4,6-Dinitro-2-methylphenol			< 200	200	< 210	210	< 220	220	< 230	230	< 210	210	< 210	210	< 220	220	< 230	230	< 210	210
4-Bromophenyl phenyl ether			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
4-Chloro-3-methylphenol			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
4-Chloroaniline			< 270	270	< 280	280	< 290	290	< 300	300	< 280	280	< 280	280	< 290	290	< 310	310	< 270	270
4-Chlorophenyl phenyl ether			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
4-Nitroaniline			< 340	340	< 350	350	< 360	360	< 380	380	< 340	340	< 360	360	< 360	360	< 390	390	< 340	340
4-Nitrophenol			< 340	340	< 350	350	< 360	360	< 380	380	< 340	340	< 360	360	< 360	360	< 390	390	< 340	340
Acenaphthene	20,000	100,000	< 240	240	< 240	240	220	260	< 270	270	< 240	240	< 250	250	170	250	< 270	270	< 240	240
Acenaphthylene	100,000	100,000	< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
Acetophenone			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
Aniline			< 270	270	< 280	280	< 290	290	< 300	300	< 280	280	< 280	280	< 290	290	< 310	310	< 270	270
Anthracene	100,000	100,000	< 240	240	< 240	240	360	260	< 270	270	170	240	< 250	250	380	250	< 270	270	< 240	240
Benz(a)anthracene	1,000	1,000	< 240	240	< 240	240	790	260	< 270	270	450	240	220	250	1,200	250	< 270	270	< 240	240
Benzdine			< 340	340	< 350	350	< 360	360	< 380	380	< 340	340	< 360	360	< 360	360	< 390	390	< 340	340
Benzo(a)pyrene	1,000	1,000	< 170	170	< 170	170	740	180	< 190	190	500	170	220	180	1,000	180	< 190	190	< 170	170
Benzo(b)fluoranthene	1,000	1,000	< 240	240	< 240	240	680	260	< 270	270	440	240	200	250	970	250	< 270	270	< 240	240
Benzo(ghi)perylene	100,000	100,000	< 240	240	< 240	240	470	260	< 270	270	350	240	190	250	610	250	< 270	270	< 240	240
Benzo(k)fluoranthene	800	3,900	< 240	240	< 240	240	680	260	< 270	270	440	240	190	250	970	250	< 270	270	< 240	240
Benzoic acid			< 1700	1,700	< 1700	1,700	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1700	1,700
Benzyl butyl phthalate			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
Bis(2-chloroethoxy)methane			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
Bis(2-chloroethyl)ether			< 170	170	< 170	170	< 180	180	< 190	190	< 170	170	< 180	180	< 180	180	< 190	190	< 170	170
Bis(2-chloroisopropyl)ether			< 240	240	< 240	240	< 260	260	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
Bis(2-ethylhexyl)phthalate			< 240	240	< 240	240	33,000	2,600	< 270	270	< 240	240	< 250	250	< 250	250	< 270	270	< 240	240
Carbazole			< 170	170	< 170	170	< 180	180	< 190	190	< 170	170	< 180	180	310	180	< 190	190	< 170	170
Chrysene	1,000	3,900	< 240	240	< 240	240	810	260	< 270	270	470	240	230	250	1,200	250	< 270	270	< 240	240
Dibenz(a,h)anthracene	330	330	< 170	170	< 170	170	130	180	< 190	190	< 170	170	< 180	180	170	180	< 190	190	< 170	170
Dibenzofuran	7,000	59,000	< 240	240	< 240	240	170	260	< 270	270										

Table 4
33 Franklin Street,
Brooklyn, NY
Soil Analytical Results
Pesticides and PCBs

	COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				SB4				SB5			
				(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')	
				7/24/2019		7/24/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/23/2019		7/24/2019		7/24/2019	
				µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides	4,4' -DDD	3.3	13,000	-	-	< 2.1	2.1	-	-	< 2.5	2.5	-	-	< 2.1	2.1	-	-	< 2.3	2.3	-	-	< 2.1	2.1
	4,4' -DDE	3.3	8,900	-	-	< 2.1	2.1	-	-	< 2.5	2.5	-	-	< 2.1	2.1	-	-	< 2.3	2.3	-	-	< 2.1	2.1
	4,4' -DDT	3.3	7,900	-	-	< 2.1	2.1	-	-	< 2.5	2.5	-	-	< 2.1	2.1	-	-	< 2.3	2.3	-	-	< 2.1	2.1
	a-BHC	20	480	-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	a-Chlordane	94	4,200	-	-	< 3.5	3.5	-	-	< 4.2	4.2	-	-	< 3.4	3.4	-	-	< 3.9	3.9	-	-	< 3.6	3.6
	Aldrin	5	97	-	-	< 3.5	3.5	-	-	< 4.2	4.2	-	-	< 3.4	3.4	-	-	< 3.9	3.9	-	-	< 3.6	3.6
	b-BHC	36	360	-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	Chlordane	94	4,200	-	-	< 3.5	3.5	-	-	< 4.2	4.2	-	-	< 3.4	3.4	-	-	< 3.9	3.9	-	-	< 3.6	3.6
	d-BHC	40	100,000	-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	Dieldrin	5	200	-	-	< 3.5	3.5	-	-	< 4.2	4.2	-	-	< 3.4	3.4	-	-	< 3.9	3.9	-	-	< 3.6	3.6
	Endosulfan I	2,400	24,000	-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	Endosulfan II	2,400	24,000	-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	Endosulfan sulfate	2,400	24,000	-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	Endrin	14	11,000	-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	Endrin aldehyde			-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	Endrin ketone			-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	g-BHC			-	-	< 1.4	1.4	-	-	< 1.7	1.7	-	-	< 1.4	1.4	-	-	< 1.5	1.5	-	-	< 1.4	1.4
	g-Chlordane			-	-	< 3.5	3.5	-	-	< 4.2	4.2	-	-	< 3.4	3.4	-	-	< 3.9	3.9	-	-	< 3.6	3.6
	Heptachlor	42	2,100	-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	Heptachlor epoxide			-	-	< 6.9	6.9	-	-	< 8.4	8.4	-	-	< 6.9	6.9	-	-	< 7.7	7.7	-	-	< 7.2	7.2
	Methoxychlor			-	-	< 35	35	-	-	< 42	42	-	-	< 34	34	-	-	< 39	39	-	-	< 36	36
	Toxaphene			-	-	< 140	140	-	-	< 170	170	-	-	< 140	140	-	-	< 150	150	-	-	< 140	140
PCBs	PCB-1016	100		< 74	74	< 69	69	< 75	75	< 84	84	< 70	70	< 69	69	< 70	70	< 77	77	< 73	73	< 72	72
	PCB-1221	100		< 74	74	< 69	69	< 75	75	< 84	84	< 70	70	< 69	69	< 70	70	< 77	77	< 73	73	< 72	72
	PCB-1232	100		< 74	74	< 69	69	< 75	75	< 84	84	< 70	70	< 69	69	< 70	70	< 77	77	< 73	73	< 72	72
	PCB-1242	100		< 74	74	< 69	69	< 75	75	< 84	84	< 70	70	< 69	69	< 70	70	< 77	77	< 73	73	< 72	72
	PCB-1248	100		< 74	74	< 69	69	< 75	75	< 84	84	< 70	70	< 69	69	< 70	70	< 77	77	< 73	73	< 72	72
	PCB-1254	100		< 74	74	< 69	69	< 75	75	< 84	84	< 70	70	< 69	69	< 70	70	< 77	77	< 73	73	< 72	72
	PCB-1260	100		< 74	74	< 69	69	< 75	75	< 84	84	< 70	70	< 69	69	< 70	70	< 77	77	< 73	73	< 72	72
	PCB-1262	100		< 74	74	< 69	69	< 75	75	< 84	84	< 70	70	< 69	69	< 70	70	< 77	77	< 73	73	< 72	72
	PCB-1268	100		< 74	74	< 69	69	< 75	75	< 84	84	< 70	70	< 69	69	< 70	70	< 77	77	< 73	73	< 72	72

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
33 Franklin Street,
Brooklyn, NY
Soil Analytical Results
Pesticides and PCBs

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB6				SB7				SB8				SB9				Duplicate	
			(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		7/22/2019	
			7/22/2019		7/22/2019		7/22/2019		7/23/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
4,4' -DDD	3.3	13,000	-	-	< 2.0	2.0	-	-	< 2.3	2.3	-	-	< 2.2	2.2	-	-	< 2.3	2.3	< 2.0	2.0
4,4' -DDE	3.3	8,900	-	-	< 2.0	2.0	-	-	< 2.3	2.3	-	-	< 2.2	2.2	-	-	< 2.3	2.3	< 2.0	2.0
4,4' -DDT	3.3	7,900	-	-	< 2.0	2.0	-	-	< 2.3	2.3	-	-	< 2.2	2.2	-	-	< 2.3	2.3	< 2.0	2.0
a-BHC	20	480	-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
a-Chlordane	94	4,200	-	-	< 3.4	3.4	-	-	< 3.8	3.8	-	-	< 3.6	3.6	-	-	< 3.8	3.8	< 3.4	3.4
Aldrin	5	97	-	-	< 3.4	3.4	-	-	< 3.8	3.8	-	-	< 3.6	3.6	-	-	< 3.8	3.8	< 3.4	3.4
b-BHC	36	360	-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
Chlordane	94	4,200	-	-	< 3.4	3.4	-	-	< 3.8	3.8	-	-	< 3.6	3.6	-	-	< 3.8	3.8	< 3.4	3.4
d-BHC	40	100,000	-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
Dieldrin	5	200	-	-	< 3.4	3.4	-	-	< 3.8	3.8	-	-	< 3.6	3.6	-	-	< 3.8	3.8	< 3.4	3.4
Endosulfan I	2,400	24,000	-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
Endosulfan II	2,400	24,000	-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
Endosulfan sulfate	2,400	24,000	-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
Endrin	14	11,000	-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
Endrin aldehyde			-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
Endrin ketone			-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
g-BHC			-	-	< 1.4	1.4	-	-	< 1.5	1.5	-	-	< 1.4	1.4	-	-	< 1.5	1.5	< 1.4	1.4
g-Chlordane			-	-	< 3.4	3.4	-	-	< 3.8	3.8	-	-	< 3.6	3.6	-	-	< 3.8	3.8	< 3.4	3.4
Heptachlor	42	2,100	-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
Heptachlor epoxide			-	-	< 6.8	6.8	-	-	< 7.6	7.6	-	-	< 7.2	7.2	-	-	< 7.7	7.7	< 6.8	6.8
Methoxychlor			-	-	< 34	34	-	-	< 38	38	-	-	< 36	36	-	-	< 38	38	< 34	34
Toxaphene			-	-	< 140	140	-	-	< 150	150	-	-	< 140	140	-	-	< 150	150	< 140	140
PCB-1016	100		< 68	68	< 68	68	< 73	73	< 76	76	< 69	69	< 72	72	< 72	72	< 77	77	< 68	68
PCB-1221	100		< 68	68	< 68	68	< 73	73	< 76	76	< 69	69	< 72	72	< 72	72	< 77	77	< 68	68
PCB-1232	100		< 68	68	< 68	68	< 73	73	< 76	76	< 69	69	< 72	72	< 72	72	< 77	77	< 68	68
PCB-1242	100		< 68	68	< 68	68	< 73	73	< 76	76	< 69	69	< 72	72	< 72	72	< 77	77	< 68	68
PCB-1248	100		< 68	68	< 68	68	< 73	73	< 76	76	< 69	69	< 72	72	< 72	72	< 77	77	< 68	68
PCB-1254	100		< 68	68	< 68	68	< 73	73	< 76	76	< 69	69	< 72	72	< 72	72	< 77	77	< 68	68
PCB-1260	100		< 68	68	< 68	68	< 73	73	< 76	76	< 69	69	< 72	72	< 72	72	< 77	77	< 68	68
PCB-1262	100		< 68	68	< 68	68	< 73	73	< 76	76	< 69	69	< 72	72	< 72	72	< 77	77	< 68	68
PCB-1268	100		< 68	68	< 68	68	< 73	73	< 76	76	< 69	69	< 72	72	< 72	72	< 77	77	< 68	68

S:
YCRR Part 375-6 Remedial Program Soil Cleanup Objectives
Reporting Limit

Highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Table 5
33 Franklin Street,
Brooklyn, NY
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				SB4				SB5			
			(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')	
			7/24/2019		7/24/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/23/2019		7/24/2019		7/24/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			6,890	35	6,810	35	6,190	37	11,300	44	7,350	34	5,490	36	5,920	36	11,300	38	6,230	34	5,320	34
Antimony			7.2	3.5	< 3.5	3.5	< 3.7	3.7	< 4.4	4.4	< 3.4	3.4	< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	6.9	3.4	< 3.4	3.4
Arsenic	13	16	19.6	0.70	1.63	0.71	5.88	0.75	4.44	0.88	3.11	0.68	2.73	0.71	1.68	0.72	3.45	0.76	15.3	0.68	1.94	0.68
Barium	350	350	662	0.7	53.4	0.7	718	0.7	75.2	0.9	112	0.7	27.9	0.7	43.9	0.7	55.3	0.8	283	0.7	36.6	0.7
Beryllium	7.2	14	0.49	0.28	0.35	0.28	0.38	0.30	0.6	0.35	0.36	0.27	< 0.29	0.29	0.34	0.29	0.47	0.31	0.39	0.27	0.31	0.27
Cadmium	2.5	2.5	6.56	0.35	< 0.35	0.35	0.8	0.37	< 0.44	0.44	< 0.34	0.34	< 0.36	0.36	< 0.36	0.36	< 0.38	0.38	1.73	0.34	< 0.34	0.34
Calcium			8,340	3.5	1,110	3.5	72,800	37	1,780	44	13,400	34	1,130	36	1,030	3.6	1,740	3.8	5,220	3.4	1,930	3.4
Chromium	30	180	43.7	0.35	18.2	0.35	17.2	0.37	14	0.44	14.5	0.34	9.78	0.36	12.6	0.36	13.9	0.38	25.5	0.34	14.4	0.34
Cobalt			12.9	0.35	8.58	0.35	6.54	0.37	6.4	0.44	5.98	0.34	4.7	0.36	7.82	0.36	7.76	0.38	12.5	0.34	5.32	0.34
Copper	50	270	166	7.0	18.5	0.7	45.2	0.7	11.1	0.9	19.2	0.7	8.7	0.7	16.2	0.7	10.1	0.8	150	6.8	32.1	0.7
Iron			62,300	35	16,700	35	18,200	37	16,900	44	15,800	34	12,700	36	16,300	36	16,400	38	39,400	34	12,800	34
Lead	63	400	666	7.0	4.4	0.7	645	7.5	9	0.9	43	0.7	3.6	0.7	8	0.7	9.2	0.8	739	6.8	5.9	0.7
Magnesium			2,120	3.5	3,060	3.5	3,860	3.7	2,890	4.4	2,510	3.4	2,260	3.6	2,600	3.6	2,620	3.8	2,300	3.4	2,550	3.4
Manganese	1,600	2,000	331	3.5	371	3.5	346	3.7	297	4.4	300	3.4	256	3.6	402	3.6	390	3.8	359	3.4	149	3.4
Mercury	0.18	0.81	2.51	0.15	< 0.03	0.03	0.49	0.03	< 0.03	0.03	0.07	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	15	0.72	< 0.03	0.03
Nickel	30	140	55.7	0.35	12.8	0.35	11.3	0.37	14.5	0.44	11.1	0.34	10	0.36	10.6	0.36	13.6	0.38	28.8	0.34	11.6	0.34
Potassium			1,150	7	2,350	7	1,140	7	916	9	1,310	7	846	7	1,610	7	872	8	1,390	7	1,340	7
Selenium	3.9	36	< 2.5	2.5	< 1.4	1.4	< 1.5	1.5	< 1.8	1.8	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 2.5	2.5	< 1.4	1.4
Silver	2	36	< 0.35	0.35	< 0.35	0.35	< 0.37	0.37	< 0.44	0.44	< 0.34	0.34	< 0.36	0.36	< 0.36	0.36	< 0.38	0.38	< 0.34	0.34	< 0.34	0.34
Sodium			497	7	107	7	614	7	309	9	102	7	72	7	104	7	104	8	336	7	284	7
Thallium			< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.8	1.8	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4
Vanadium			35.4	0.35	24	0.35	27	0.37	17.8	0.44	20.3	0.34	13.4	0.36	24.3	0.36	17.9	0.38	24.8	0.34	17.3	0.34
Zinc	109	2,200	1,300	7.0	35.5	0.7	711	7.5	41.1	0.9	59.5	0.7	25.7	0.7	68.7	0.7	81.5	0.8	367	6.8	36.1	0.7

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
33 Franklin Street,
Brooklyn, NY
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB6				SB7				SB8				SB9				Duplicate	
			(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		(0-2')		(5-7')		7/22/2019	
			7/22/2019		7/22/2019		7/22/2019		7/23/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019		7/22/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			6,550	33	6,410	31	10,900	35	1,140	38	7,290	36	6,790	35	8,610	34	9,680	37	6,360	37
Antimony			< 3.3	3.3	< 3.1	3.1	< 3.5	3.5	< 3.8	3.8	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4	< 3.7	3.7	< 3.7	3.7
Arsenic	13	16	1.57	0.65	1.94	0.63	13.8	0.70	3.75	0.76	2.69	0.72	5.09	0.71	8.36	0.68	4.08	0.75	4.07	0.73
Barium	350	350	38.5	0.7	47	0.6	343	0.7	27.1	0.8	68.1	0.7	77.4	0.7	186	0.7	59	0.7	41.2	0.7
Beryllium	7.2	14	0.42	0.26	0.37	0.25	0.5	0.28	< 0.31	0.31	0.41	0.29	0.35	0.28	0.43	0.27	0.85	0.30	0.4	0.29
Cadmium	2.5	2.5	< 0.33	0.33	< 0.31	0.31	1.92	0.35	< 0.38	0.38	< 0.36	0.36	< 0.35	0.35	0.48	0.34	< 0.37	0.37	< 0.37	0.37
Calcium			1,160	3.3	1,290	3.1	8,900	3.5	1,110	3.8	1,310	3.6	138,000	350	47,100	34	2,640	3.7	851	3.7
Chromium	30	180	16.6	0.33	18.9	0.31	35.5	0.35	3.55	0.38	18.2	0.36	24.3	0.35	14.7	0.34	12.8	0.37	15.4	0.37
Cobalt			6.98	0.33	6	0.31	9.1	0.35	1.4	0.38	7.99	0.36	5.16	0.35	6.01	0.34	6.38	0.37	5.05	0.37
Copper	50	270	22.7	0.7	20.7	0.6	98.7	0.7	2.8	0.8	22	0.7	19.1	0.7	29	0.7	15.1	0.7	21.8	0.7
Iron			21,900	33	19,400	31	29,900	35	17,700	38	19,500	36	13,700	350	12,200	34	16,200	37	20,200	37
Lead	63	400	6	0.7	5.4	0.6	433	7.0	9.9	0.8	73.2	0.7	11.8	0.7	401	6.8	6.9	0.7	5.6	0.7
Magnesium			2,780	3.3	2,880	3.1	3,810	3.5	208	3.8	3,140	3.6	5,020	3.5	3,160	3.4	2,790	3.7	2,780	3.7
Manganese	1,600	2,000	415	3.3	385	3.1	260	3.5	12.9	0.38	366	3.6	317	3.5	241	3.4	360	3.7	318	3.7
Mercury	0.18	0.81	< 0.03	0.03	< 0.03	0.03	0.84	0.07	< 0.07	0.07	0.1	0.07	< 0.07	0.07	0.18	0.07	< 0.07	0.07	< 0.07	0.07
Nickel	30	140	13.1	0.33	11.5	0.31	26.1	0.35	0.97	0.38	13.5	0.36	11	0.35	12.5	0.34	13.5	0.37	11.3	0.37
Potassium			1,650	7	1,900	6	1,670	7	2,530	8	1,990	7	1,840	7	1,540	7	903	7	1,770	7
Selenium	3.9	36	< 1.3	1.3	< 1.3	1.3	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5
Silver	2	36	< 0.33	0.33	< 0.31	0.31	< 0.35	0.35	< 0.38	0.38	< 0.36	0.36	< 0.35	0.35	< 0.34	0.34	< 0.37	0.37	< 0.37	0.37
Sodium			232	7	315	6	300	7	573	8	199	7	498	7	567	7	211	7	260	7
Thallium			< 1.3	1.3	< 1.3	1.3	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5
Vanadium			23.1	0.33	22.5	0.31	35.5	0.35	6.85	0.38	24.3	0.36	14.9	0.35	23.8	0.34	16.3	0.37	24.4	0.37
Zinc	109	2,200	37.6	0.7	37.5	0.6	460	7.0	6.1	0.8	66.7	0.7	34.8	0.7	175	6.8	34.3	0.7	52.5	0.7

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
33 Franklin Street,
Brooklyn, NY
Soil - Emerging Contaminants

Compound	SB6 (5-7')	
	7/22/2019	
	mg/Kg	
	Results	RL
Perfluorobutanoic Acid (PFBA)	ND	0.00114
Perfluoropentanoic Acid (PFPeA)	ND	0.00114
Perfluorobutanesulfonic Acid (PFBS)	ND	0.00114
Perfluorohexanoic Acid (PFHxA)	ND	0.00114
Perfluoroheptanoic Acid (PFHpA)	ND	0.00114
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.00114
Perfluorooctanoic Acid (PFOA)	ND	0.00114
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.00114
Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.00114
Perfluorononanoic Acid (PFNA)	ND	0.00114
Perfluorooctanesulfonic Acid (PFOS)	ND	0.00114
Perfluorodecanoic Acid (PFDA)	ND	0.00114
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.00114
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.00114
Perfluoroundecanoic Acid (PFUnA)	ND	0.00114
Perfluorodecanesulfonic Acid (PFDS)	ND	0.00114
Perfluorooctanesulfonamide (FOSA)	ND	0.00114
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.00114
Perfluorododecanoic Acid (PFDoA)	ND	0.00114
Perfluorotridecanoic Acid (PFTTrDA)	ND	0.00114
Total PFOA and PFOS	0	
Total Emerging Contaminants	0	

Notes:

ND - Not Detected

RL- Reporting Limit

Table 7
33 Franklin Street,
Brooklyn, NY
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	MW1		MW2		MW3		MW4		Duplicate	
		7/24/2019		7/24/2019		7/24/2019		7/24/2019		7/24/2019	
		µg/L		µg/L		µg/L		µg/L		µg/L	
		Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
1,1,1,2-Tetrachloroethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,1,1-Trichloroethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0
1,1,2,2-Tetrachloroethane	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<1.0	1.0
1,1,2-Trichloroethane	1	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,1-Dichloroethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0
1,1-Dichloroethene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,1-Dichloropropene	5	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<1.0	1.0
1,2,3-Trichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,2,3-Trichloropropane	0.04	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<0.25	0.25
1,2,4-Trichlorobenzene		<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<1.0	1.0
1,2,4-Trimethylbenzene	5	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<0.50	0.50
1,2-Dibromoethane	0.0006	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.25	0.25
1,2-Dichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,2-Dichloroethane	0.6	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<0.60	0.60
1,2-Dichloropropane	1	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,3,5-Trimethylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,3-Dichlorobenzene	3	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,3-Dichloropropane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,4-Dichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,4-dioxane		<0.35	0.35	<0.35	0.35	0.41	0.35	<0.35	0.35	<0.35	0.35
2,2-Dichloropropane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
2-Chlorotoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
2-Hexanone	50	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5
2-Isopropyltoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
4-Chlorotoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
4-Methyl-2-pentanone		<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5
Acetone	50	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Acrolein	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Acrylonitrile	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Benzene	1	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70
Bromobenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Bromochloromethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Bromodichloromethane	50	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Bromoform	50	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Bromomethane	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Carbon Disulfide		<1.0	1.0	<1.0	1.0	0.28	1.0	<1.0	1.0	<1.0	1.0
Carbon tetrachloride	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Chlorobenzene	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Chloroethane	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Chloroform	7	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Chloromethane	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
cis-1,2-Dichloroethene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
cis-1,3-Dichloropropene	0.4	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40
Dibromochloromethane	50	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Dibromomethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Dichlorodifluoromethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Ethylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Hexachlorobutadiene	0.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50
Isopropylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
m&p-Xylene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Methyl ethyl ketone	50	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5
Methyl t-butyl ether (MTBE)		24	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Methylene chloride	5	<3.0	3.0	<3.0	3.0	<3.0	3.0	<3.0	3.0	<3.0	3.0
Naphthalene	10	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
n-Butylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
n-Propylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
o-Xylene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
p-Isopropyltoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
sec-Butylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Styrene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Tert-butyl alcohol		<50	50	<50	50	<50	50	<50	50	<50	50
tert-Butylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Tetrachloroethene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Tetrahydrofuran (THF)	50	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Toluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
trans-1,2-Dichloroethene	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
trans-1,3-Dichloropropene	0.4	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40
trans-1,4-dichloro-2-butene	5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5
Trichloroethene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Trichlorofluoromethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Trichlorotrifluoroethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Vinyl chloride	2	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0

Notes:

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 8
33 Franklin Street,
Brooklyn, NY
Groundwater Analytical Results
Semi-Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1		MW2		MW3		MW4		Duplicate	
		7/24/2019		7/24/2019		7/24/2019		7/24/2019		7/24/2019	
		µg/L		µg/L		µg/L		µg/L		µg/L	
		Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
1,2,4-Trichlorobenzene		< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
1,2-Dichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
1,2-Diphenylhydrazine		< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
1,3-Dichlorobenzene	3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
1,4-Dichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
2,4,5-Trichlorophenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
2,4,6-Trichlorophenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
2,4-Dichlorophenol	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
2,4-Dimethylphenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
2,4-Dinitrophenol	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
2,4-Dinitrotoluene	5	< 5.0	5.0	< 5.0	5.0	< 5	5	< 4.8	4.8	< 5.0	5.0
2,6-Dinitrotoluene	5	< 5.0	5.0	< 5.0	5.0	< 5	5	< 4.8	4.8	< 5.0	5.0
2-Chloronaphthalene	10	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
2-Chlorophenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
2-Methylnaphthalene		< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
2-Methylphenol (o-cresol)	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
2-Nitroaniline	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.8	4.8	< 5.0	5.0
2-Nitrophenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
3&4-Methylphenol (m&p-cresol)		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
3,3'-Dichlorobenzidine	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.8	4.8	< 5.0	5.0
3-Nitroaniline	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.8	4.8	< 5.0	5.0
4,6-Dinitro-2-methylphenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
4-Bromophenyl phenyl ether		< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
4-Chloro-3-methylphenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
4-Chloroaniline	5	< 3.5	3.5	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4	< 3.5	3.5
4-Chlorophenyl phenyl ether		< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
4-Nitroaniline	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.8	4.8	< 5.0	5.0
4-Nitrophenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
Acetophenone		< 3.5	3.5	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4	< 3.5	3.5
Aniline	5	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 3.5	3.5
Anthracene	50	< 4.5	4.5	< 4.6	4.6	< 4.5	4.5	< 4.3	4.3	< 5.1	5.1
Benzidine	5	< 25	25	< 26	26	< 25	25	< 24	24	< 4.5	4.5
Benzoic acid		< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 25	25
Benzyl butyl phthalate	50	< 5.0	5.0	< 5.0	5.0	< 5	5	< 4.8	4.8	< 5.1	5.1
Bis(2-chloroethoxy)methane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 5.0	5.0
Bis(2-chloroethyl)ether	1	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 1.0	1.0
Bis(2-chloroisopropyl)ether		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 5.1	5.1
Carbazole		< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
Dibenzofuran		< 5.0	5.0	< 5.0	5.0	< 5	5	< 4.8	4.8	< 5.0	5.0
Diethyl phthalate	50	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
Dimethylphthalate	50	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
Di-n-butylphthalate	50	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
Di-n-octylphthalate	50	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
Fluoranthene	50	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
Fluorene	50	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
Hexachlorobutadiene	0.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.48	0.48	< 5.0	5.0
Hexachlorocyclopentadiene	5	< 5.0	5.0	< 5.0	5.0	< 5	5	< 4.8	4.8	< 1.0	1.0
Isophorone	50	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
Naphthalene	10	< 5.0	5.0	< 5.0	5.0	< 5	5	< 4.8	4.8	< 5.0	5.0
Nitrobenzene	0.4	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 0.40	0.40
N-Nitrosodimethylamine		< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 0.51	0.51
N-Nitrosodi-n-propylamine		< 2.5	2.5	< 2.6	2.6	< 2.5	2.5	< 2.4	2.4	< 5.1	5.1
N-Nitrosodiphenylamine	50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 5.1	5.1
Phenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
Pyrene	50	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
1,2,4,5-Tetrachlorobenzene		< 3.5	3.5	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4	< 3.5	3.5
Acenaphthene	20	< 5.0	5.0	< 5.2	5.2	< 5	5	< 4.8	4.8	< 5.1	5.1
Acenaphthylene		< 0.53	0.53	< 0.52	0.52	< 0.56	0.56	< 0.48	0.48	< 0.51	0.51
Benz(a)anthracene	0.002	0.08	0.02	0.08	0.02	< 0.02	0.02	< 0.02	0.02	0.04	0.02
Benzo(a)pyrene		0.07	0.02	0.08	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02
Benzo(b)fluoranthene	0.002	0.07	0.02	0.07	0.02	< 0.02	0.02	< 0.02	0.02	0.04	0.02
Benzo(ghi)perylene		< 0.53	0.53	< 0.52	0.52	< 0.56	0.56	< 0.48	0.48	< 0.51	0.51
Benzo(k)fluoranthene	0.002	0.05	0.02	0.06	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02
Bis(2-ethylhexyl)phthalate	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0
Chrysene	0.002	0.09	0.02	0.09	0.02	< 0.02	0.02	< 0.02	0.02	0.05	0.02
Dibenz(a,h)anthracene		< 0.53	0.53	< 0.52	0.52	< 0.56	0.56	< 0.48	0.48	< 0.51	0.51
Hexachlorobenzene	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04
Hexachloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	0.50
Indeno(1,2,3-cd)pyrene	0.002	0.06	0.02	0.07	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02
Pentachloronitrobenzene		< 2.5	2.5	< 2.6	2.6	< 2.5	2.5	< 2.4	2.4	< 2.5	2.5
Pentachlorophenol	1	< 0.53	0.53	< 0.52	0.52	< 0.56	0.56	< 0.48	0.48	< 0.51	0.51
Phenanthrene	50	< 0.53	0.53	< 0.52	0.52	< 0.56	0.56	< 0.48	0.48	< 0.51	0.51
Pyridine	50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.96	0.96	< 1.0	1.0

Notes:

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 9
33 Franklin Street,
Brooklyn, NY
Groundwater Analytical Results
Pesticides and PCBs

	Compound	NYSDEC Groundwater Quality Standards µg/L	MW1		MW2		MW3		MW4		Duplicate	
			7/24/2019		7/24/2019		7/24/2019		7/24/2019		7/24/2019	
			µg/L		µg/L		µg/L		µg/L		µg/L	
			Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
PCBs	PCB-1016	0.09	< 0.047	0.047	< 0.051	0.051	< 0.051	0.051	< 0.047	0.047	< 0.051	0.051
	PCB-1221	0.09	< 0.047	0.047	< 0.051	0.051	< 0.051	0.051	< 0.047	0.047	< 0.051	0.051
	PCB-1232	0.09	< 0.047	0.047	< 0.051	0.051	< 0.051	0.051	< 0.047	0.047	< 0.051	0.051
	PCB-1242	0.09	< 0.047	0.047	< 0.051	0.051	< 0.051	0.051	< 0.047	0.047	< 0.051	0.051
	PCB-1248	0.09	< 0.047	0.047	< 0.051	0.051	< 0.051	0.051	< 0.047	0.047	< 0.051	0.051
	PCB-1254	0.09	< 0.047	0.047	< 0.051	0.051	< 0.051	0.051	< 0.047	0.047	< 0.051	0.051
	PCB-1260	0.09	< 0.047	0.047	< 0.051	0.051	< 0.051	0.051	< 0.047	0.047	< 0.051	0.051
	PCB-1262		< 0.047	0.047	< 0.051	0.051	< 0.051	0.051	< 0.047	0.047	< 0.051	0.051
	PCB-1268		< 0.047	0.047	< 0.051	0.051	< 0.051	0.051	< 0.047	0.047	< 0.051	0.051
Pesticides	4,4-DDD	0.3	< 0.009	0.009	< 0.002	0.002	< 0.002	0.002	< 0.009	0.009	< 0.002	0.002
	4,4-DDE	0.2	< 0.009	0.009	0.044	0.010	< 0.002	0.002	< 0.009	0.009	0.067	0.010
	4,4-DDT	0.2	< 0.009	0.009	0.24	0.051	< 0.002	0.002	< 0.009	0.009	0.32	0.051
	a-BHC	0.01	< 0.009	0.009	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
	a-Chlordane		< 0.24	0.24	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.010	0.010
	Alachlor	0.5	< 0.35	0.35	< 0.076	0.076	< 0.076	0.076	< 0.071	0.071	< 0.077	0.077
	Aldrin		< 0.007	0.007	< 0.002	0.002	< 0.002	0.002	< 0.001	0.001	< 0.002	0.002
	b-BHC	0.04	0.038	0.024	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
	Chlordane	0.05	6.4	2.4	< 0.020	0.020	< 0.020	0.020	< 0.019	0.019	< 0.021	0.021
	d-BHC	0.04	< 0.024	0.024	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
	Dieldrin	0.004	< 0.009	0.009	< 0.002	0.002	< 0.002	0.002	< 0.001	0.001	< 0.002	0.002
	Endosulfan I		< 0.047	0.047	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.010	0.010
	Endosulfan II		< 0.047	0.047	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.010	0.010
	Endosulfan Sulfate		< 0.047	0.047	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.010	0.010
	Endrin		< 0.024	0.024	< 0.005	0.005	< 0.005	0.005	< 0.009	0.009	< 0.005	0.005
	Endrin aldehyde	5	< 0.047	0.047	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.010	0.010
	Endrin ketone	5	< 0.047	0.047	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.010	0.010
	gamma-BHC	0.05	< 0.024	0.024	< 0.005	0.005	< 0.050	0.050	< 0.050	0.050	< 0.005	0.005
	g-Chlordane		< 0.24	0.24	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.010	0.010
	Heptachlor	0.04	< 0.024	0.024	< 0.005	0.005	< 0.005	0.005	< 0.009	0.009	< 0.005	0.005
	Heptachlor epoxide	0.03	0.32	0.047	< 0.005	0.005	< 0.005	0.005	< 0.009	0.009	< 0.005	0.005
	Methoxychlor	35	< 0.47	0.47	< 0.10	0.10	< 0.10	0.10	< 0.094	0.094	< 0.10	0.10
	Toxaphene	0.6	< 0.94	0.94	< 0.20	0.20	< 0.20	0.20	< 0.19	0.19	< 0.21	0.21

Notes:

RL- Reporting limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 10
33 Franklin Street,
Brooklyn, NY
Groundwater Analytical Results
TAL Unfiltered Metals

Compound	NYSDEC Groundwater Quality Standards	MW1		MW2		MW3		MW4		Duplicate	
		7/24/2019		7/24/2019		7/24/2019		7/24/2019		7/24/2019	
		µg/L		µg/L		µg/L		µg/L		µg/L	
		Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Total Metals	mg/L										
Aluminum	0.1	4.25	0.020	1.54	0.020	23.8	0.020	4.32	0.020	1.61	0.020
Antimony	0.003	< 0.0030	0.0030	< 0.0030	0.0030	< 0.0030	0.0030	< 0.0030	0.0030	< 0.0030	0.0030
Arsenic	0.025	< 0.004	0.004	< 0.004	0.004	0.007	0.004	< 0.004	0.004	< 0.004	0.004
Barium	1	0.184	0.010	0.089	0.010	0.283	0.010	0.194	0.010	0.149	0.010
Beryllium	0.003	< 0.001	0.001	< 0.001	0.001	0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cadmium	0.005	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004
Calcium		99.6	0.010	65.6	0.010	132	0.010	145	0.010	68.5	0.010
Chromium	0.05	0.011	0.001	0.004	0.001	0.036	0.001	0.006	0.001	0.005	0.001
Cobalt		0.009	0.005	< 0.005	0.005	0.015	0.005	< 0.005	0.005	< 0.005	0.005
Copper	0.2	0.022	0.005	< 0.005	0.005	0.023	0.005	0.006	0.005	< 0.005	0.005
Iron	0.3	15.5	1.0	3.45	0.10	43.9	0.10	29.8	0.10	3.7	0.10
Lead	0.025	0.014	0.002	0.018	0.002	0.021	0.002	0.004	0.002	0.018	0.002
Magnesium	35	17.4	0.010	13.1	0.010	19.7	0.010	35.6	0.010	14	0.010
Manganese	0.3	1.53	0.005	0.278	0.005	1.72	0.005	3.37	0.050	0.289	0.005
Mercury	0.0007	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002
Nickel	0.1	0.011	0.004	0.005	0.004	0.027	0.004	0.007	0.004	0.006	0.004
Potassium		15.8	0.1	28.1	0.1	24.6	0.1	25.8	0.1	28.8	0.1
Selenium	0.01	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010
Silver	0.05	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Sodium	20	358	10	86.5	1.0	169	1.0	221	1.0	91.4	1.0
Thallium	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005
Vanadium		0.015	0.010	< 0.010	0.010	0.039	0.010	< 0.010	0.010	< 0.010	0.010
Zinc	5	0.029	0.010	0.014	0.010	0.088	0.010	0.023	0.010	0.013	0.010

Notes:

RL- Reporting limit

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 11
33 Franklin Street,
Brooklyn, NY
Groundwater Analytical Results
Dissolved Metals

Compound Dissolved Metals	NYSDEC Groundwater Quality Standards mg/L	MW1		MW2		MW3		MW4		Duplicate	
		7/24/2019		7/24/2019		7/24/2019		7/24/2019		7/24/2019	
		µg/L		µg/L		µg/L		µg/L		µg/L	
		Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Aluminum	0.1	0.044	0.011	0.037	0.011	0.048	0.011	0.05	0.011	0.034	0.011
Antimony	0.003	< 0.0016	0.0016	< 0.0016	0.0016	< 0.0016	0.0016	< 0.0016	0.0016	< 0.0016	0.0016
Arsenic	0.025	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003
Barium	1	0.131	0.011	0.07	0.011	0.059	0.011	0.102	0.011	0.068	0.011
Beryllium	0.003	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cadmium	0.005	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004
Calcium		96.7	0.01	71.5	0.01	116	0.01	153	0.01	67.4	0.01
Chromium	0.05	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cobalt		< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Copper	0.2	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Iron	0.3	0.02	0.01	< 0.01	0.01	0.04	0.01	2.93	0.01	< 0.01	0.01
Lead	0.025	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002
Magnesium	35	11.9	0.01	14.2	0.01	13.1	0.01	31.6	0.01	13	0.01
Manganese	0.3	1.01	0.005	0.253	0.005	0.998	0.005	3.18	0.053	0.237	0.005
Mercury	0.0007	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002
Nickel	0.1	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004
Potassium		13.1	0.1	24	0.1	20.6	0.1	23.2	0.1	24.8	0.1
Selenium	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01
Silver	0.05	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Sodium	20	326	1.1	95.3	1.1	154	1.1	222	1.1	81.7	1.1
Thallium	0.0005	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003
Vanadium		< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011
Zinc	5	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011

Notes:

RL- Reporting limit

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 12
33 Franklin Street,
Brooklyn, NY
Groundwater - Emerging Contaminants

Compound	MW4	
	7/24/2019	
	ng/L	
	Results	RL
Perfluorobutanoic Acid (PFBA)	17	2.26
Perfluoropentanoic Acid (PFPeA)	6.51	2.26
Perfluorobutanesulfonic Acid (PFBS)	2.62	2.26
Perfluorohexanoic Acid (PFHxA)	7.63	2.26
Perfluoroheptanoic Acid (PFHpA)	10.6	2.26
Perfluorohexanesulfonic Acid (PFHxS)	2.36	2.26
Perfluorooctanoic Acid (PFOA)	52.5	2.26
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	2.26
Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.26
Perfluorononanoic Acid (PFNA)	ND	2.26
Perfluorooctanesulfonic Acid (PFOS)	ND	2.26
Perfluorodecanoic Acid (PFDA)	ND	2.26
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.26
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	2.26
Perfluoroundecanoic Acid (PFUnA)	ND	2.26
Perfluorodecanesulfonic Acid (PFDS)	ND	2.26
Perfluorooctanesulfonamide (FOSA)	ND	2.26
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	2.26
Perfluorododecanoic Acid (PFDoA)	ND	2.26
Perfluorotridecanoic Acid (PFTrDA)	ND	2.26
Total PFOA and PFOS	52.5	
Total Emerging Contaminants	99.22	

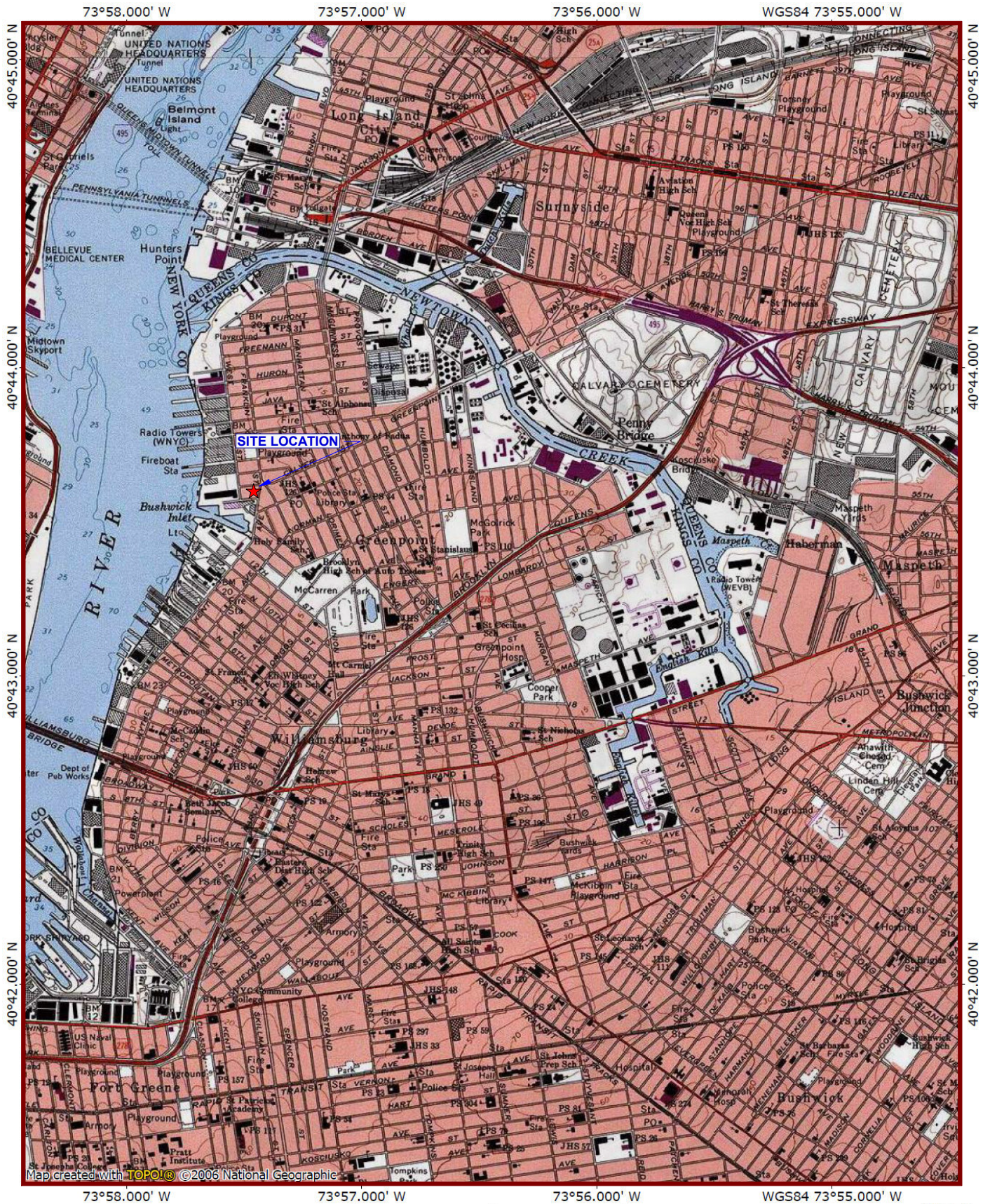
Notes:

ND - Not Detected
RL- Reporting Limit

Table 13
33 Franklin Street,
Brooklyn, NY
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub-Slab Value (µg/m ³) ^(a)	NYSDOH Soil Outdoor Background Levels (µg/m ³) ^(b)	SV1		SV2		SV3		SV4		SV5		SV6		SV7	
			7/24/2019		7/24/2019		7/24/2019		7/24/2019		7/24/2019		7/24/2019		7/24/2019	
			(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1-Trichloroethane	100	<2.0 - 2.8	< 1.00	1.00	< 1.00	1.00	11.3	1.00	< 1.00	1.00	122	1.00	50.4	1.00	< 1.00	1.00
1,1,2,2-Tetrachloroethane		<1.5	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,2-Trichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethene		<1.0	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20
1,2,4-Trichlorobenzene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2,4-Trimethylbenzene		<1.0	43.8	1.00	39.6	1.00	51.1	1.00	41.5	1.00	42.4	1.00	38.3	1.00	38.8	1.00
1,2-Dibromoethane		<1.5	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichloropropane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorotetrafluoroethane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,3,5-Trimethylbenzene		<1.0	16.8	1.00	13.3	1.00	19.4	1.00	14.4	1.00	15.1	1.00	13.2	1.00	13.5	1.00
1,3-Butadiene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,3-Dichlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,4-Dichlorobenzene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,4-Dioxane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
2-Hexanone			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
4-Ethyltoluene		NA	42.5	1.00	32.7	1.00	44.2	1.00	35.5	1.00	37.9	1.00	33.2	1.00	34.2	1.00
4-Isopropyltoluene			1.56	1.00	1.9	1.00	2.51	1.00	1.68	1.00	1.76	1.00	1.61	1.00	1.68	1.00
4-Methyl-2-pentanone			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Acetone		NA	54.4	1.00	187	6.01	84.3	1.00	65.3	1.00	67.4	1.00	58.9	1.00	89.5	1.00
Acrylonitrile			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Benzene		<1.6 - 4.7	8.75	1.00	3.96	1.00	27.7	1.00	4.82	1.00	6.58	1.00	5.17	1.00	13.5	1.00
Benzyl Chloride		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromodichloromethane		<5.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromoform		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromomethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Carbon Disulfide		NA	4.79	1.00	3.09	1.00	11.6	1.00	20.7	1.00	3.77	1.00	2.77	1.00	6.47	1.00
Carbon Tetrachloride	5	<3.1	< 0.20	0.20	0.86	0.20	0.27	0.20	< 0.20	0.20	< 0.20	0.20	0.29	0.20	4.72	0.20
Chlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chloroethane		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chloroform		<2.4	< 1.00	1.00	9.47	1.00	< 1.00	1.00	< 1.00	1.00	1.21	1.00	< 1.00	1.00	5.03	1.00
Chloromethane		<1.0 - 1.4	< 1.00	1.00	< 1.00	1.00	2.27	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
cis-1,2-Dichloroethene		<1.0	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	0.42	0.20
cis-1,3-Dichloropropene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Cyclohexane		NA	8.19	1.00	6.47	1.00	20.5	1.00	7.12	1.00	7.81	1.00	5.19	1.00	16.3	1.00
Dibromochloromethane		<5.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Dichlorodifluoromethane		NA	6.77	1.00	2	1.00	9.74	1.00	1.98	1.00	7.41	1.00	2.37	1.00	2.24	1.00
Ethanol			136	5.01	311	6.01	130	1.00	161	5.01	163	5.01	164	5.01	213	5.01
Ethyl Acetate		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Ethylbenzene		<4.3	38.8	1.00	21	1.00	25.8	1.00	25.6	1.00	30.7	1.00	23.5	1.00	27	1.00
Heptane		NA	15.2	1.00	13.4	1.00	21.7	1.00	10.8	1.00	17.3	1.00	10.5	1.00	23.6	1.00
Hexachlorobutadiene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Hexane		<1.5	11.1	1.00	11.4	1.00	47.9	1.00	6.87	1.00	15.4	1.00	8.49	1.00	27.8	1.00
Isopropylalcohol		NA	2.8	1.00	5.28	1.00	3.71	1.00	3.96	1.00	3.19	1.00	3.17	1.00	4.23	1.00
Isopropylbenzene			4.66	1.00	3.23	1.00	4.96	1.00	3.65	1.00	3.93	1.00	3.2	1.00	3.44	1.00
Xylene (m&p)		<4.3	133	1.00	69	1.00	109	1.00	86.8	1.00	102	1.00	81.1	1.00	87.2	1.00
Methyl Ethyl Ketone			< 1.00	1.00	22	1.00	24.9	1.00	30.1	1.00	13.1	1.00	10.1	1.00	21.3	1.00
MTBE		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	4.86	1.00	< 1.00	1.00
Methylene Chloride		<3.4	< 3.00	3.00	< 3.00	3.00	< 3.00	3.00	< 3.00	3.00	< 3.00	3.00	3.27	3.00	< 3.00	3.00
n-Butylbenzene			3.29	1.00	4.37	1.00	4.34	1.00	3.92	1.00	3.81	1.00	3.6	1.00	3.64	1.00
Xylene (o)		<4.3	54.2	1.00	29.4	1.00	60.8	1.00	36.8	1.00	41.3	1.00	32.7	1.00	34.8	1.00
Propylene		NA	< 1.00	1.00	11.7	1.00	30.8	1.00	2.2	1.00	< 1.00	1.00	1.39	1.00	< 1.00	1.00
sec-Butylbenzene			1.6	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Styrene		<1.0	3.56	1.00	4.56	1.00	4.04	1.00	3.39	1.00	4.11	1.00	3.68	1.00	4.38	1.00
Tetrachloroethene	30		< 0.25	0.25	14.1	0.25	9.08	0.25	7.52	0.25	32.9	0.25	7.66	0.25	60.1	0.25
Tetrahydrofuran			< 1.00	1.00	16.1	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	8.69	1.00	< 1.00	1.00
Toluene		1.0 - 6.1	92.6	1.00	56.5	1.00	64.8	1.00	62.9	1.00	82.9	1.00	62.5	1.00	92.6	1.00
trans-1,2-Dichloroethene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00								

FIGURES



CALYER STREET

SIDEWALK

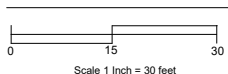
LOT 14

LOT 15

LOT 16

LOT 13

SCALE:



KEY:

-  Property Boundary
-  Existing Building Footprint

SIDEWALK

QUAY STREET

FRANKLIN STREET

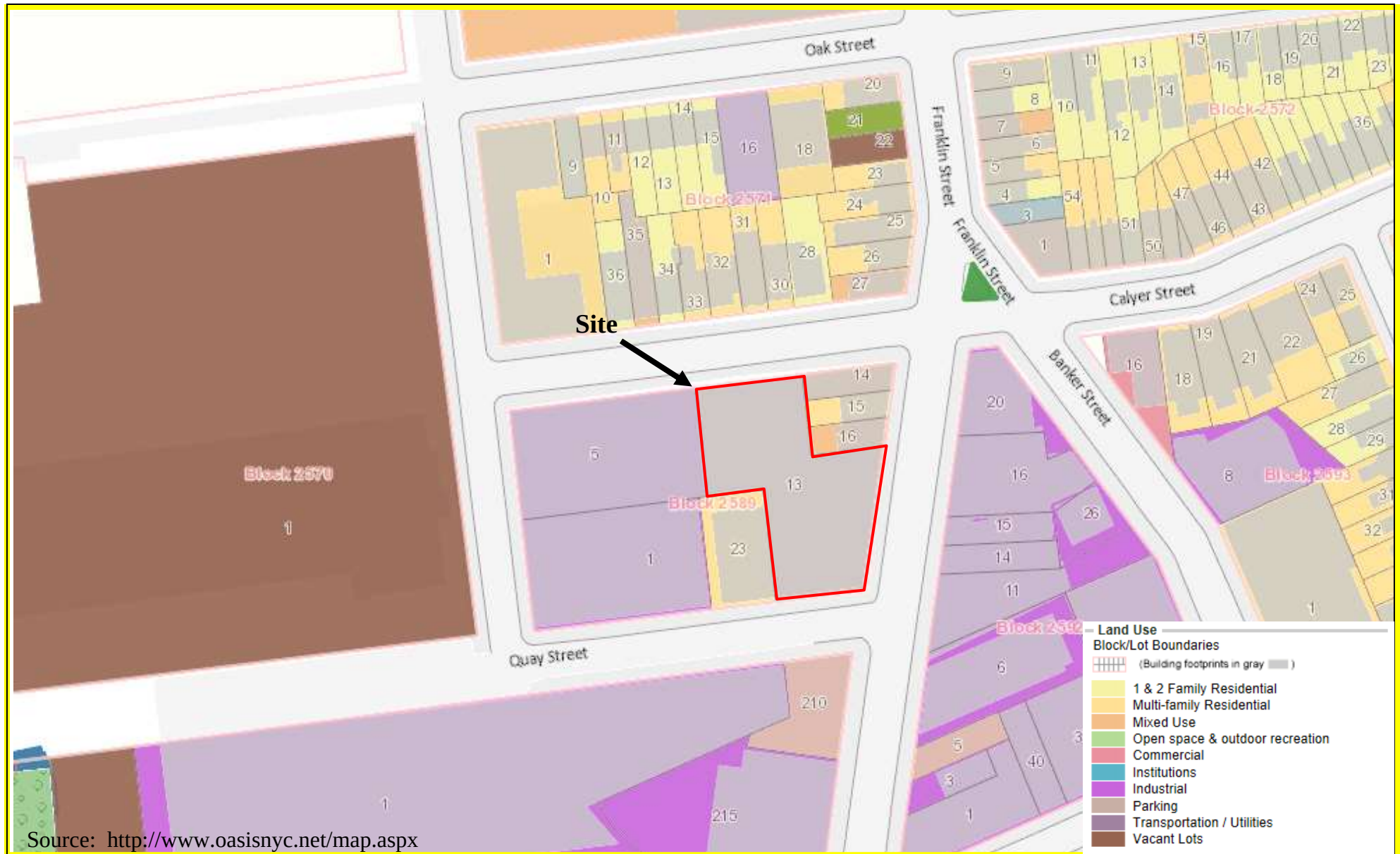


FIGURE 4
SURROUNDING LAND USE MAP

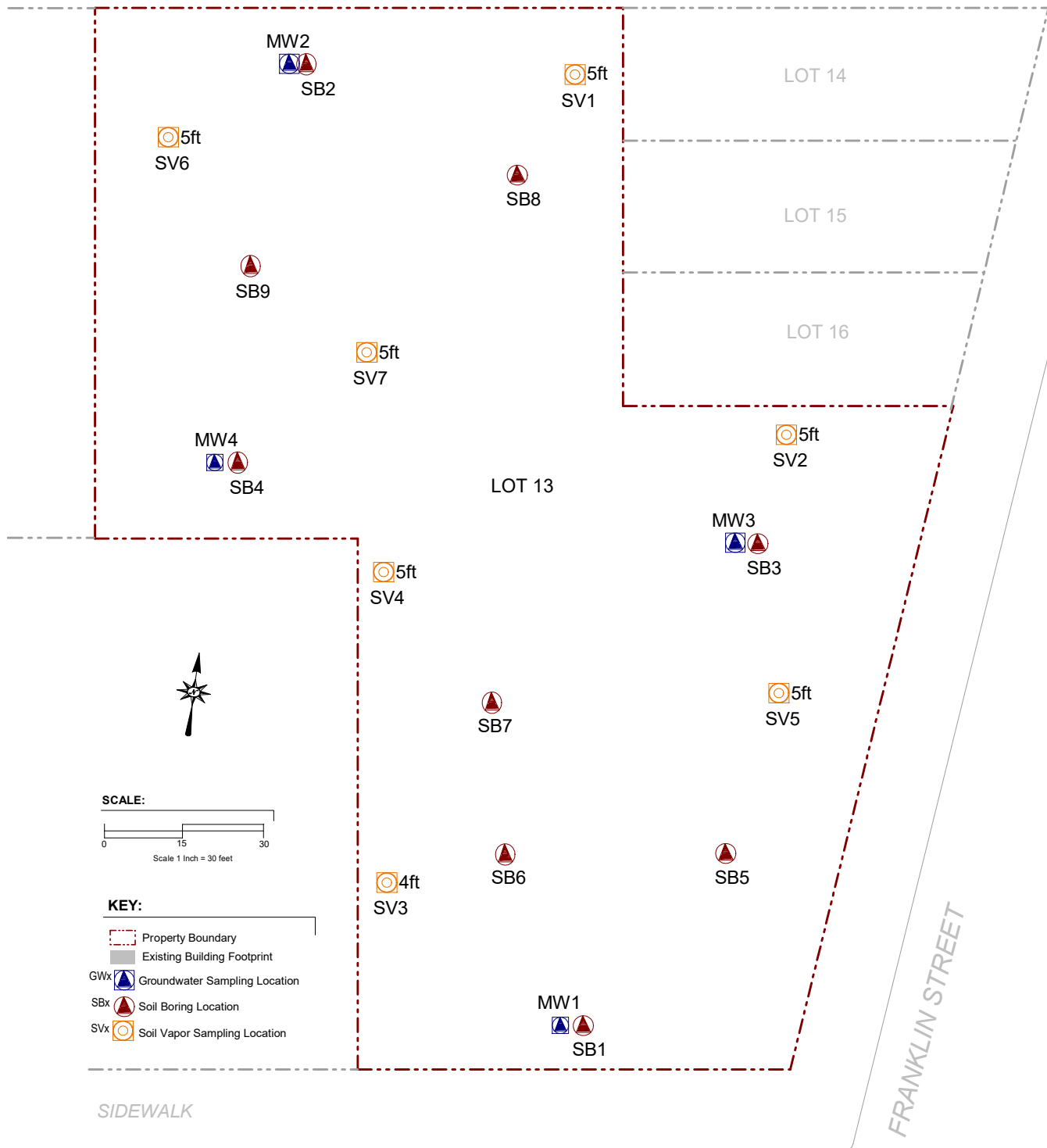
33 FRANKLIN STREET, BROOKLYN, NY
HAZARDOUS MATERIALS REMEDIAL INVESTIGATION REPORT

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870

CALYER STREET

SIDEWALK



SIDEWALK

QUAY STREET

FRANKLIN STREET



Phone 631.504.6000
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Figure
5

Site Name: REDEVELOPMENT PROJECT
Site Address: 33 FRANKLIN STREET, BROOKLYN, NY
Drawing Title: SITE SAMPLING LOCATIONS

SB2 (0-2') - 7/22/2019	
SVOCs (µg/Kg)	
Indeno(1,2,3-cd)pyrene	520
Metals (mg/Kg)	
Barium	718
Lead	645
Mercury	0.49
Zinc	711
SB2 (5-7') - 7/22/2019	
No Exceedances Detected	

SB9 (0-2') - 7/22/2019	
SVOCs (µg/Kg)	
Benz(a)anthracene	1,200
Benzo(a)pyrene	1,000
Benzo(k)fluoranthene	970
Chrysene	1,200
Indeno(1,2,3-cd)pyrene	700
Metals (mg/Kg)	
Lead	401
Zinc	175
SB9 (5-7') - 7/22/2019	
No Exceedances Detected	

SB8 (0-2') - 7/22/2019	
Metals (mg/Kg)	
Lead	73.2
SB8 (5-7') - 7/22/2019	
No Exceedances Detected	

SB3 - 7/22/2019	
No Exceedances Detected	

SB5 (0-2') - 7/24/2019	
VOCs (µg/Kg)	
Tetrachloroethene	2,500
Trichloroethene	520
SVOCs (µg/Kg)	
Benz(a)anthracene	1,200
Benzo(a)pyrene	1,200
Benzo(b)fluoranthene	1,100
Benzo(k)fluoranthene	1,000
Chrysene	1,200
Indeno(1,2,3-cd)pyrene	910
Metals (mg/Kg)	
Barium	9.4
Copper	150
Lead	739
Mercury	15
Zinc	367
SB5 (5-7') - 7/24/2019	
No Exceedances Detected	

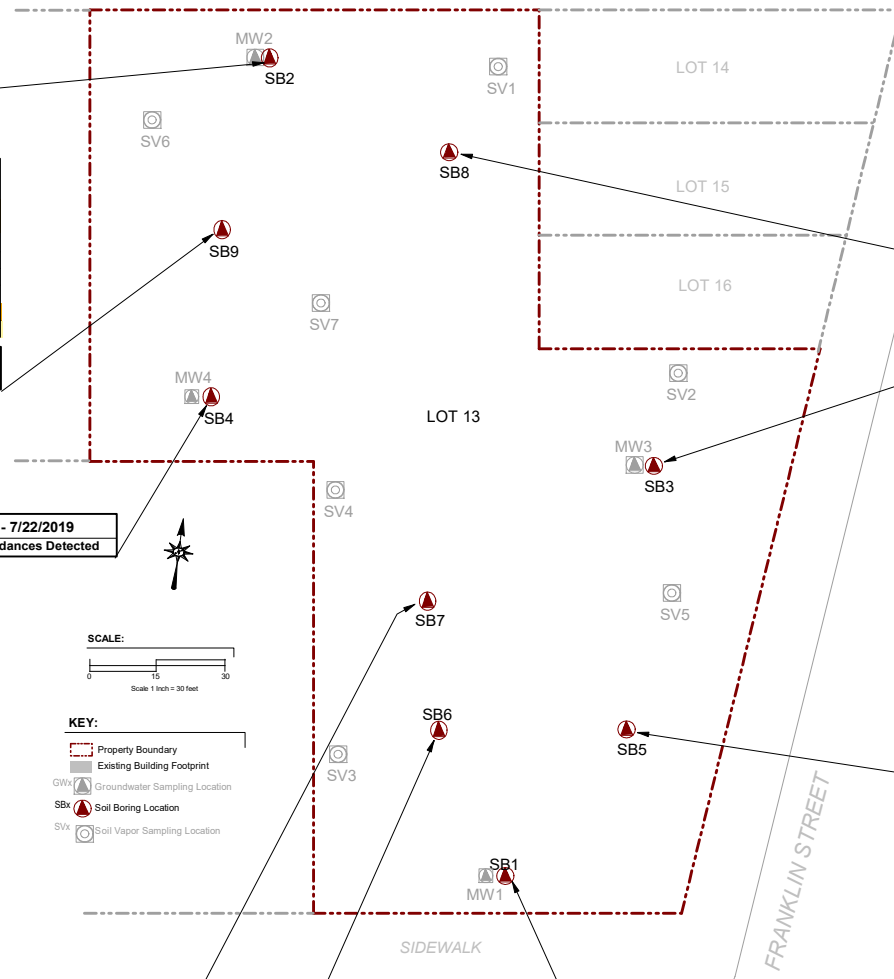
SB7 (0-2') - 7/22/2019	
SVOCs (µg/Kg)	
Indeno(1,2,3-cd)pyrene	550
Metals (mg/Kg)	
Arsenic	13.8
Chromium	35.5
Copper	98.7
Lead	433
Mercury	0.84
Zinc	460
SB7 (5-7') - 7/22/2019	
No Exceedances Detected	

SB6 - 7/22/2019	
No Exceedances Detected	

SB1 (0-2') - 7/24/2019	
SVOCs (µg/Kg)	
Benz(a)anthracene	1,800
Benzo(a)pyrene	3,200
Benzo(b)fluoranthene	5,100
Benzo(k)fluoranthene	2,400
Chrysene	4,800
Dibenz(a,h)anthracene	820
Indeno(1,2,3-cd)pyrene	2,500
Metals (mg/Kg)	
Arsenic	19.6
Barium	662
Cadmium	6.56
Chromium	43.7
Copper	166
Lead	666
Mercury	2.51
Nickel	55.7
Zinc	1,300
SB1 (5-7') - 7/24/2019	
No Exceedances Detected	

CALYER STREET

SIDEWALK



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Figure
6

Site Name: REDEVELOPMENT PROJECT
Site Address: 33 FRANKLIN STREET, BROOKLYN, NY
Drawing Title: SOIL EXCEEDANCES

CALYER STREET

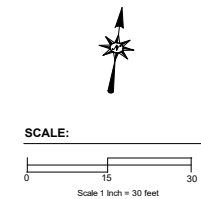
SIDEWALK

MW2 - 7/24/2019	
SVOCs (µg/L)	
Benz(a)anthracene	0.08
Benzo(a)pyrene	0.08
Benzo(b)fluoranthene	0.07
Benzo(k)fluoranthene	0.06
Chrysene	0.09
Indeno(1,2,3-cd)pyrene	0.07
Pesticides (µg/L)	
4,4-DDE	0.044
4,4-DDT	0.24
Dissolved Metals (mg/L)	
Sodium	95.3

MW4 - 7/24/2019	
Dissolved Metals (mg/L)	
Iron	2.93
Manganese	3.18
Sodium	222

MW3 - 7/24/2019	
Dissolved Metals (mg/L)	
Manganese	0.998
Selenium	154

MW1 - 7/24/2019	
SVOCs (µg/L)	
Benz(a)anthracene	0.08
Benzo(a)pyrene	0.07
Benzo(b)fluoranthene	0.07
Benzo(k)fluoranthene	0.05
Chrysene	0.09
Indeno(1,2,3-cd)pyrene	0.06
Pesticides (µg/L)	
Chlordane	6.4
Heptachlor epoxide	0.32
Dissolved Metals (mg/L)	
Manganese	1.01
Selenium	326



KEY:

- Property Boundary
- Existing Building Footprint
- ▲ GWx Groundwater Sampling Location
- ▲ SBx Soil Boring Location
- SVx Soil Vapor Sampling Location
- Exceedance above GWQS

SIDEWALK

QUAY STREET

Figure 7

Site Name: REDEVELOPMENT PROJECT
 Site Address: 33 FRANKLIN STREET, BROOKLYN, NY
 Drawing Title: GROUNDWATER EXCEEDANCES

SV6 - 7/24/2019	
VOCs (µg/m³)	
1,1,1-Trichloroethane	50.4
1,2,4-Trimethylbenzene	38.3
1,3,5-Trimethylbenzene	13.2
4-Ethyltoluene	33.2
4-Isopropyltoluene	1.61
Acetone	58.9
Benzene	5.17
Carbon Disulfide	2.77
Carbon Tetrachloride	0.29
Cyclohexane	5.19
Dichlorodifluoromethane	2.37
Ethanol	164
Ethylbenzene	23.5
Heptane	10.5
Hexane	8.49
Isopropylalcohol	3.17
Isopropylbenzene	3.2
Xylene (m&p)	81.1
Methyl Ethyl Ketone	10.1
MTBE	4.86
Methylene Chloride	3.27
n-Butylbenzene	3.6
Xylene (o)	32.7
Propylene	1.39
Styrene	3.68
Tetrachloroethene	7.66
Tetrahydrofuran	8.69
Toluene	62.5
Trichloroethene	1.31
Trichlorofluoromethane	1.57

SV1 - 7/24/2019	
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	43.8
1,3,5-Trimethylbenzene	16.8
4-Ethyltoluene	42.5
4-Isopropyltoluene	1.56
Acetone	54.4
Benzene	8.75
Carbon Disulfide	4.79
Cyclohexane	8.19
Dichlorodifluoromethane	6.77
Ethanol	136
Ethylbenzene	38.8
Heptane	15.2
Hexane	11.1
Isopropylalcohol	2.8
Isopropylbenzene	4.66
Xylene (m&p)	133
n-Butylbenzene	3.29
Xylene (o)	54.2
sec-Butylbenzene	1.6
Styrene	3.56
Toluene	92.6
Trichlorofluoromethane	2.26

SV7 - 7/24/2019	
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	38.8
1,3,5-Trimethylbenzene	13.5
4-Ethyltoluene	34.2
4-Isopropyltoluene	1.68
Acetone	89.5
Benzene	13.5
Carbon Disulfide	6.47
Carbon Tetrachloride	4.72
Chloroform	5.03
cis-1,2-Dichloroethene	0.42
Cyclohexane	16.3
Dichlorodifluoromethane	2.24
Ethanol	213
Ethylbenzene	27
Heptane	23.6
Hexane	27.8
Isopropylalcohol	4.23
Isopropylbenzene	3.44
Xylene (m&p)	87.2
Methyl Ethyl Ketone	21.3
n-Butylbenzene	3.64
Xylene (o)	34.8
Styrene	4.38
Tetrachloroethene	60.1
Toluene	92.6
Trichloroethene	13.6
Trichlorofluoromethane	8.14

SV2 - 07/24/2019	
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	39.6
1,3,5-Trimethylbenzene	13.3
4-Ethyltoluene	32.7
4-Isopropyltoluene	1.9
Acetone	187
Benzene	3.96
Carbon Disulfide	3.09
Carbon Tetrachloride	0.86
Chloroform	9.47
Cyclohexane	6.47
Dichlorodifluoromethane	2
Ethanol	311
Ethylbenzene	21
Heptane	13.4
Hexane	11.4
Isopropylalcohol	5.28
Isopropylbenzene	3.23
Xylene (m&p)	69
Methyl Ethyl Ketone	22
n-Butylbenzene	4.37
Xylene (o)	29.4
Propylene	11.7
Styrene	4.56
Tetrachloroethene	14.1
Tetrahydrofuran	16.1
Toluene	56.5
Trichloroethene	1.24
Trichlorofluoromethane	2.11

SV3 - 7/24/2019	
VOCs (µg/m³)	
1,1,1-Trichloroethane	11.3
1,2,4-Trimethylbenzene	51.1
1,3,5-Trimethylbenzene	19.4
4-Ethyltoluene	44.2
4-Isopropyltoluene	2.51
Acetone	84.3
Benzene	27.7
Carbon Disulfide	11.6
Carbon Tetrachloride	0.27
Chloromethane	2.27
Cyclohexane	20.5
Dichlorodifluoromethane	9.74
Ethanol	130
Ethylbenzene	25.8
Heptane	21.7
Hexane	47.9
Isopropylalcohol	3.71
Isopropylbenzene	4.96
Xylene (m&p)	109
Methyl Ethyl Ketone	24.9
n-Butylbenzene	4.34
Xylene (o)	60.8
Propylene	30.8
Styrene	4.04
Tetrachloroethene	9.08
Toluene	64.8
Trichloroethene	2.8

SV4 - 7/24/2019	
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	41.5
1,3,5-Trimethylbenzene	14.4
4-Ethyltoluene	35.5
4-Isopropyltoluene	1.68
Acetone	65.3
Benzene	4.82
Carbon Disulfide	20.7
Cyclohexane	7.12
Dichlorodifluoromethane	1.98
Ethanol	161
Ethylbenzene	25.6
Heptane	10.8
Hexane	6.87
Isopropylalcohol	3.96
Isopropylbenzene	3.65
Xylene (m&p)	86.8
Methyl Ethyl Ketone	30.1
n-Butylbenzene	3.92
Xylene (o)	36.8
Propylene	2.2
Styrene	3.39
Tetrachloroethene	7.52
Toluene	62.9
Trichloroethene	0.33
Trichlorofluoromethane	2.68

SV5 - 7/24/2019	
VOCs (µg/m³)	
1,1,1-Trichloroethane	122
1,2,4-Trimethylbenzene	42.4
1,3,5-Trimethylbenzene	15.1
4-Ethyltoluene	37.9
4-Isopropyltoluene	1.76
Acetone	67.4
Benzene	6.58
Carbon Disulfide	3.77
Chloroform	1.21
Cyclohexane	7.81
Dichlorodifluoromethane	7.41
Ethanol	163
Ethylbenzene	30.7
Heptane	17.3
Hexane	15.4
Isopropylalcohol	3.19
Isopropylbenzene	3.93
Xylene (m&p)	102
Methyl Ethyl Ketone	13.1
n-Butylbenzene	3.81
Xylene (o)	41.3
Styrene	4.11
Tetrachloroethene	32.9
Toluene	82.9
Trichloroethene	1
Trichlorofluoromethane	2.59

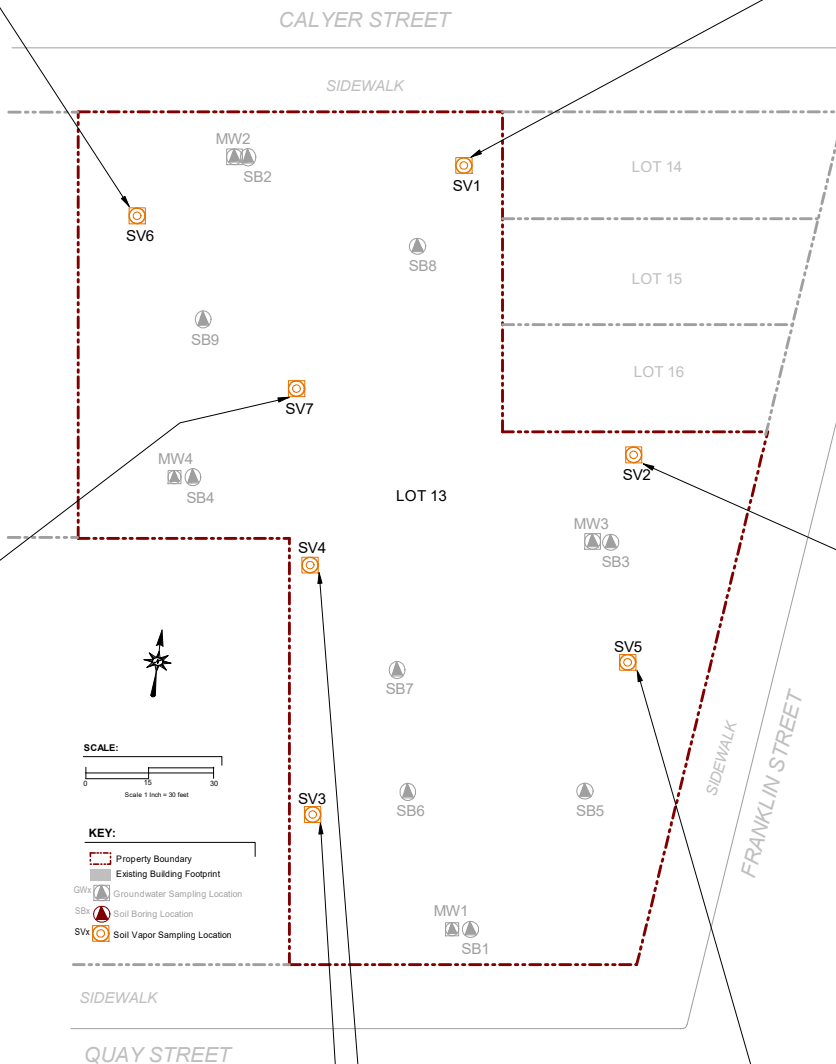


Figure 8

ATTACHMENT A
PHASE I SCREENING



Phase I Screening Summary

33 Franklin Street, Brooklyn, New York 11222
Block 2589, Lot No. 13

Property Information:

The Site consists of a single 0.054-acre (18,537 square foot) tax lot located on the west side of Franklin Street between Calyer Street to the north and Quay Street to the south in the East Williamsburg section of the Borough of Brooklyn, City of New York, Kings County, New York (**Figure 1**). The property is identified as 33 Franklin Street and as Borough 3, Block 2589, Lot No. 13 (**Figure 2**) on the New York City Tax Maps. The DOB identifies the Site with the additional street addresses 82-88 Calyer Street; 33-41 Franklin Street; and 89-95 Quay Street.

The elevation of the Site ranges from 0 to 7 feet above mean sea level (amsl). The depth to groundwater at the Site is approximately 0-5 feet below grade surface (bgs). Groundwater flows to the southwest, consistent with the regional trend. The Site is zoned for M1-2/R6B, mixed manufacturing and residential use.

History:

Site history was determined based on a review of Sanborn fire insurance maps and city directories. The Site was developed with three, 3-story dwellings, with rear yards and one, 2-story stable, fronting to the north along Calyer Street from at least 1887, with a carpenter and Franklin Iron Foundry occupying the rear of the Site. By 1905, one of the dwellings was identified as an office with the remainder of the Site occupied by Burr & Hudson Foundry, including carpentry, storage and modeling. The 2-story stable was identified as vacant. The Site was unmapped in 1922 and 1928. By 1948, the Site was developed with two, 2- to 3 ½-story dwellings and one, 3-story office, with basement, fronting to the north along Calyer Street. An addition 2-story dwelling was developed in a rear yard. The remainder of the Site was developed with portions of the Burr & Huston Co. Foundry, including carpentry, storage, and modeling. By 1951, the 2- to 3 ½-story dwelling had been converted to White Metal Foundry, with two additional 1-story foundry structures in the rear yard. The remainder of the Site was unchanged. By 1965, the majority of the Site was undeveloped, with portions of a factory remaining on the southern border along Quay Street. By 1978, the Site was redeveloped with the existing 1-story manufacturing/warehouse building with a mezzanine, which covered the entirety of the lot. The Sanborn maps identified the building with a new construction date of 1968. The Site remained unchanged from 1978 through 2007. The Site is currently occupied by a one-story warehouse, with mezzanine, which covers the entirety of the lot and is utilized as storage for the Marlborough Gallery Inc, an art gallery.

Surrounding properties were densely developed with commercial stores, residential development and a chair factory by at least 1887, with Calyer Street adjacent to the north, Franklin Street adjacent to the east, Quay Street adjacent to the south and West Street further to the west. By 1905, more industrial and manufacturing development had replaced several of the commercial stores and the chair factory. Surrounding properties were unmapped in 1922 and 1928. By 1948, surrounding





properties were densely developed with residential and industrial development, with some commercial stores. A filling station with three gasoline tanks was adjacent to the south across Quay Street. These gasoline tanks were no longer identified by Calyer Street was adjacent to the north, Franklin Street was adjacent to the east, Quay Street was adjacent to the south and West street was further to the west. By 1978, the filling station and gasoline tanks to the south were no longer identified and by 1979 a commercial building had replaced them. The adjacent properties have remained relatively unchanged from 1979 to the present day.

The Site address (93 Quay Street) was listed in the city directories as being occupied by Marlborough Gallery Inc. from 2010 to 2014. No additional listings of the Site addresses were provided. The surrounding properties were identified as primarily commercial/retail on all sides, with some manufacturing activity, including a yoga studio, commercial stores, auto repair shop, commercial offices.

EBC's review of historical information identified the presence of several foundries on the Site from at least 1905 until circa 1965. This long-term historic use of the Site is considered to represent a recognized environmental condition (REC).

Site Inspection:

EBC representative Maggie Ellis conducted the Site inspection on February 28, 2019. Ms. Ellis was accompanied by Mr. Joel Friedman, prospective Site purchaser. Pertinent statements made by Mr. Friedman regarding the Site's history and general information are included throughout this report.

At the time of the inspection, the Site was developed with a vacant one-story commercial building, with mezzanine, that occupied the entirety of the lot. The Site is accessible via pedestrian and roll-up door entrances along Franklin Street to the east, Calyer Street to the north and Quay Street to the south. The Site building is currently occupied by Marlborough Gallery Inc, an art gallery, and consisted of storage, a bathroom and maintenance space. The current use of the Site is considered unlikely to represent a significant environmental concern.

The Site building is currently heated via natural gas-fired ceiling-mounted space heaters. EBC observed no visual evidence that would indicate the existence of current or former underground or aboveground storage tanks (USTs/ASTs) during the Site inspection. In addition, the interviews and regulatory database review completed for this assessment did not reveal evidence of current or former USTs or ASTs on-Site.

No interior floor drains or storm drains were observed on-Site. Storm water from the Site flows to curbside drains along the adjacent roadway (Cook Street).

No suspect asbestos-containing material (ACM) was observed during the Site inspection. However, due to the age of the Site building, it is possible that roofing, roof flashing and other (inaccessible) building materials may contain asbestos.





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A visual inspection of painted surfaces conducted during the Site inspection indicated that interior paints throughout the Site building were generally in good to fair condition, with some worn paint and chipping/peeling observed. Exterior surfaces were comprised primarily of unpainted brick. Due to the age of the Site building, the presence of lead-based paint (LBP) is possible. As the Site building is used for commercial purposes, suspect LBP is not considered to represent a significant environmental concern.

No evidence of water leaks, water damage or mold was observed on-Site.

Environmental Database Search:

EDR was retained to provide a computerized database search of the project area within an ASTM-standard radius of the Site. A list of the databases searched and the search radius is shown on the summary table below. EBC reviewed the database output to determine if the property appears on any of the regulatory agency lists.

SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS			
Regulatory Database	Approximate Search Distance	Site Listed?	# of Sites within the Search Radius
Federal NPL	1 mile	No	0
Federal Delisted NPL	½ mile	No	0
Federal SEMS	½ mile	No	0
Federal SEMS Archive	½ mile	No	3
Federal RCRA CORRACTS	1 mile	No	1
Federal RCRIS Non-CORRACTS TSD	½ mile	No	0
Federal RCRA Generators	Site & Adjoining	No	2
Federal Institutional Control/ Engineering Control Registry	Site	No	N/A
Federal ERNS	Site	No	N/A
Federal Brownfield Sites	½ mile	No	0
State and Tribal NPL	1 mile	No	0
State and Tribal CERCLIS (SHWS)	½ mile	No	3
State and Tribal Landfill or Solid Waste Disposal Sites	½ mile	No	4
Registered Recycling Facility List (SWRCY)	½ mile	No	0





SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS			
Regulatory Database	Approximate Search Distance	Site Listed?	# of Sites within the Search Radius
State and Tribal LTANKS/LUST	½ mile	No	21
State and Tribal Registered UST	Site & Adjoining	No	2
State and Tribal Registered AST	Site & Adjoining	No	1
State Chemical Bulk Storage CBS	¼ mile	No	0
State and Tribal Institutional Control/Engineering Control Registry	Site	No	N/A
State and Tribal Voluntary Cleanup Site	½ mile	No	19
State and Tribal Brownfield Sites	½ mile	No	13
State Spill Sites	1/8 mile	No	32
Registered Drycleaners	¼ mile	No	1
NYC E-Designated Sites	1/8 mile	Yes	12
EDR Historic Auto Stations (HIST AS)	Site & Adjoining	No	1
EDR Historic Cleaners (HIST CL)	Site & Adjoining	No	0
Manufactured Gas Plants (MGPs)	1 mile	No	3

The Site was listed on the E-Designation database as having a HazMat restriction (E-138), which was determined during the Greenpoint-Williamsburg Rezoning completed by the City in May 2005 (CEQR 04DCP003K). The HazMat E-Designation requires that a facility conduct testing and sampling protocol and remediation where appropriate as well as a mandatory construction-related health and safety plan. The HazMat E-designation requires the issuance of a building permit by the NYC Department of Buildings before the property can be redeveloped.

The database search generated information on the following listings for the surrounding properties within ASTM radius guidelines that could potentially impact the Site:

Federal SEMS Archive: Three SEMS Archive facilities (Brooklyn Union Gas/Williamsburg Works, Kent Avenue, North 12th Street/East River; City Smelting & Refining Co., 61 North 13th Street; and Brooklyn Union Gas/Peoples Works, Kent Avenue South 10th & 11th Streets) were identified within a one-half mile radius of the Site. Each of the three listings are located over 1,000 feet and hydraulically upgradient of the Site. Based on their distance from the Site and that the Site and surrounding areas utilize municipally-supplied drinking water, these facilities are unlikely to represent a significant environmental concern to the Site.





Federal CORRACTS: One CORRACTS facility (Radiac Research Corp., 33 South First Street) was identified within a one-half mile radius of the Site. This facility is located approximately 4,520 feet south-southwest and hydraulically upgradient of the Site. Based on the distance from the Site and that the Site and surrounding areas utilize municipally-supplied drinking water, this facility is unlikely to represent a significant environmental concern to the Site.

Federal RCRA Generators: No RCRA generators were identified adjacent to the Site. However, two Non-Generator listings (WH Christian & Sons Inc., 31 Franklin Street and Con Edison, 77-79 Calyer Street and West Street) were identified for adjacent properties. A NonGen facility is a former registered/regulated generator which does not presently generate hazardous waste. Information provided within the EDR report indicates that there are no open/active violations for these facilities. Therefore, these facilities are unlikely represent a significant environmental concern to the Site.

State and Tribal Hazardous Waste Sites (SHWS): Four SHWS facilities (58 Greenpoint Avenue; Williamsburg Former Pratt Refiner, 26 North 12th Street; K – Williamsburg Works, Kent Avenue & 12th Street; and Brooklyn North 1 Garage, 50 Kent Avenue) were identified within a one-half mile radius of the Site. Each of the four listings are located over 1,000 feet and hydraulically upgradient of the Site. Based on their distance from the Site and that the Site and surrounding areas utilize municipally-supplied drinking water, these facilities are unlikely to represent a significant environmental concern to the Site.

State and Tribal Landfill and/or Solid Waste Disposal Sites (SWF/LF): Four SWF/LF facilities were identified within a one-half mile radius of the Site. These facilities are summarized as follows:

- Corzo Contracting Co. Inc., 190 Banker Street, approximately 800 feet southeast and hydraulically upgradient of the Site. This facility is identified as an inactive transfer station, with no violations listed.
- North 12th Street Transfer Station, 20 North 12th Street, approximately 1,150 feet southwest and hydraulically crossgradient of the Site. This facility is identified as an inactive transfer permit station, with no violations listed.
- National Paper Stock, Inc., 136 North 10th Street, approximately 2,355 feet south and hydraulically upgradient of the Site. This facility is identified as an inactive transfer permit station, with no violations listed.
- Nekboh Recycling (5 North 7 Street Registration), 5 North 7th Street (Kent Avenue between North 6 to North 7), approximately 2,370 feet southwest and hydraulically





crossgradient of the Site. This facility is identified as an inactive transfer permit station, with no violations listed.

Based on the information in the database, their distance from the Site, the presumed hydraulic gradient, and/or that the Site and surrounding areas utilize municipally-supplied drinking water, these facilities are unlikely to represent a significant environmental concern to the Site.

State and Tribal LTANKS: Twenty-one (21) LTANKS facilities were identified within a one-half mile radius of the Site. Each of the 21 listings received regulatory closure from the NYSDEC and are not expected to represent a concern to the Site based on their regulatory status, presumed hydraulic gradient and/or that the surrounding area utilizes municipally-supplied drinking water. One of the closed LTANKS listings is located adjacent to the Site, and is summarized as follows:

- Spill No. 97-10386 - WH Christian & Sons, 31 Franklin Street, adjacent to the south across Quay Street and hydraulically crossgradient of the Site. This spill, which occurred on December 10, 1997, is related to contaminated soil identified during a tank removal. No further details are provided; however, this spill was closed by the NYSDEC on March 3, 2003.

Petroleum Bulk Storage – Underground and Aboveground Storage Tank databases (PBS-UST/AST): Sixteen (1) PBS-UST and 19 PBS-AST sites are listed in the database report. Two of the listed PBS-UST and one of the listed PBS-AST facilities are located adjacent to the Site. These listings are summarized as follows:

- W.H. Christian & Sons Inc. (PBS ID No. 2-233439), 31 Franklin Street, adjacent to the south across Quay Street, and hydraulically crossgradient of the Site. This facility is listed on the PBS-UST database as having seven, 550-gallon steel USTs containing gasoline which was installed at an unknown date and closed – removed on November 1, 1997. This property was cross-referenced on the LTANKS database in connection with one closed spill. Based on the information in the database report, this facility is considered unlikely to represent a significant environmental concern to the subject property.
- 85 Quay Street (PBS ID No. 2-612948), 85 Quay Street, adjacent to the west and hydraulically crossgradient of the Site. This facility is listed on the PBS-AST database as having one, 3,000-gallon steel AST containing No. 2 fuel oil which was reportedly installed on January 1, 1911 and identified as temporarily out of service prior to October 12, 2018. This property was not cross-referenced on the NYSPILLS or LTANKS databases and, as such, is considered unlikely to represent a significant environmental concern to the subject property.
- S&B Caamano (PBS ID No. 2-110795), 54 Franklin Street, adjacent to the northeast across Franklin Street, and hydraulically crossgradient of the Site. This facility is listed on the





PBS-UST database as having one, 2,000-gallon steel UST containing No. 2 fuel oil which was installed at an unknown date and closed in place on November 1, 1998. This property was not cross-referenced on the NYSPILLS or LTANKS databases and, as such, is considered unlikely to represent a significant environmental concern to the subject property.

State and Tribal Voluntary Cleanup Program (VCP): Nineteen (19) VCP facilities were identified within a one-half mile radius of the Site. Each of the 19 VCP facilities are located over 500 feet and are hydraulically cross-or downgradient of the Site. Based on their distance from the Site, presumed hydraulic gradient and/or that the Site and surrounding areas utilize municipally-supplied drinking water, these facilities are unlikely to represent a significant environmental concern to the Site.

New York State Brownfields Sites (BROWNFIELDS): Thirteen BROWNFIELDS listings were identified within a one-half mile radius of the Site. These sites are summarized as follows:

- Consolidated Freightways (Site Code C224191), 11 West Street, approximately 250 feet west-southwest and hydraulically crossgradient of the Site. This facility was developed prior to 1887 as a shipyard and iron works, and was later occupied by a lumber yard, machine shop, welding company, auto repair shops and fueling station. Based on investigations conducted to date, the primary contaminants of concern are petroleum-related contaminants, metals and SVOCs. Additional investigation and remediation are ongoing. Based on the information in the database report, presumed hydraulic gradient and its distance, this facility is unlikely to represent a significant environmental concern to the subject property.
- 12 Franklin Street (Site Code C224286), 12 Franklin Street, approximately 370 feet south-southwest and hydraulically crossgradient of the Site. This facility was historically occupied by commercial and industrial facilities from the early 1900s to the present day. Information submitted with the BCP application regarding the environmental condition at this facility are currently under review; following review, remediation at this facility will commence. Based on the information in the database report, presumed hydraulic gradient and its distance, this facility is unlikely to represent a significant environmental concern to the subject property.
- Greenpoint Marina (Side Code C224190), 43-57 West Street and 2-24 Oak Street, approximately 430 feet northwest and hydraulically crossgradient of the Site. This facility was historically occupied by a shipyard, coal storage, machine shop, manufacturing, milling operations, a trucking facility and a testing laboratory. Based on investigations conducted to date, the primary contaminants of concern are metals and SVOCs. Additional investigation and remediation are ongoing. Based on the information in the database report,





presumed hydraulic gradient and its distance, this facility is unlikely to represent a significant environmental concern to the subject property.

The 10 remaining facilities are each located over 1,000 feet and/or hydraulically cross- or downgradient of the Site. Based on their distance from the Site, presumed hydraulic gradient and/or that the Site and surrounding areas utilize municipally-supplied drinking water, these facilities are unlikely to represent a significant environmental concern to the Site.

State Spill Sites (NYSPILLS): Thirty-two (32) facilities were identified on the NYSPILLS database within a one-eighth mile radius of the Site. Thirty-one (31) of the 32 listings received regulatory closure from the NYSDEC and are not expected to represent a concern to the Site based on their regulatory status, presumed hydraulic gradient and/or that the surrounding area utilizes municipally-supplied drinking water. One of the closed NYSPILLS listings is located adjacent to the Site, and is summarized as follows:

- Spill No. 00-10226 – Manhole #5761, adjacent to the southeast at the intersection of Franklin Street and Quay Street, and hydraulically crossgradient of the subject property. This spill, which occurred on December 12, 2000, is related to the discovery of two gallons on unknown oil on 800 gallons of water. Cleanup was completed and this spill was closed by the NYSDEC on April 19, 2001.

Information regarding the one active NYSPILLS case (OER Site, 42 West Street), including the nature of the release, its distance from the Site, and that the Site and surrounding areas utilize municipally-supplied drinking water, this facility is unlikely to represent a significant environmental concern to the Site.

Registered Drycleaning Facilities (DRYCLEANERS): One DRYCLEANERS listing (W.H. Christian & Sons, 211 Banker Street [22-28 Franklin Street]) was identified within a one-quarter mile radius of the Site. This facility was cross-referenced on the RCRA databases as a current small quantity hazardous waste generator with no open violations. Based on the information in the database report, the absence of open violations, the distance from the Site, and/or that the Site and surrounding area utilize water from a municipal source, this listing unlikely to represent a significant environmental concern to the Site.

NYCDP Environmental Designation Sites (E-DES): Twelve E-DES listings were identified within a one-eighth mile of the site, several of which are located adjacent to the Site. These adjacent properties are designated with the same E-Designation as the Site and, therefore, are unlikely to represent a significant environmental concern to the Site.

Manufactured Gas Plants (MGPs): Three MGP facilities (Wythe Avenue [Berry Street] Station, Wythe Avenue, Berry, North 12th and North 13th Streets; Con Edison – East 11th Street Works MGP, East 11th-East 13th Streets; and Con Edison – East 14th Street Works MGP, East 14th-East 16th Streets) were identified within a one-mile radius of the Site. These MGPs are located over





one-quarter mile and, therefore, are unlikely to represent a significant environmental concern to the Site.

Historic Auto Station (HISTAS): One HISTAS facility (WH Christian & Sons Inc., 31 Franklin Street) was identified adjacent to the south across Quay Street and hydraulically crossgradient in relation to the Site. This facility was identified as a gasoline service station in 1971 and as a general automotive repair shop from 1994 through 2013. This facility was cross-referenced on the LTANKS database in connection with one closed spill and was not cross-referenced on the NYSPILLS database. Based on the information provided, this facility is unlikely to represent a significant environmental concern to the Site.

New York City Department of Buildings Information

Computerized Property Profile Overviews (PPOs) available from the New York City Department of Buildings (NYCDOB) Building Information System (BIS) website were reviewed for information regarding the subject properties. Pertinent information regarding the Site is summarized below:

According to the PPO, 30 Actions are listed for the Site: 11 alterations, dated in 1901, 1903, 1904, 1905 (2), 1906, 1907, 19011, 1918, 1929 and 1984; three building notices, dated in 1901, 1910 and 1911; one unidentified notice, dated in 1916; one Certificate of Occupancy (C/O), dated in 1987; three demolition notices, dated in 1905, 1964 and 1982; one oil burner application, dated in 1955; one plumbing notice, dated in 1905; six plumbing repair slips, dated in 1909, 1910, 1912, 1945 (2) and 1962; one sprinklers notice, dated in 1984; one unsafe building notice, undated; and one unknown notice, undated. The 1966 C/O indicates the Site is developed with one, 1-story commercial building occupied by a wholesale establishment (photo printing & developing) with a loading berth.

One Complaint is listed for the Site, dated between November 2009, and related to an illegal gas hook. This Complaint is identified as closed.

Four DOB and zero Environmental Control Board (ECB) violations are listed for the Site. Three of the four DOB violations are identified as "Closed". The open DOB violation, dated March 1999, is related to local law - boilers. While the open violation does not represent an environmental concern, it should be resolved with the appropriate agency.

One Job/Filing and no ARA/LAA jobs are listed for the Site. The listed Job/Filing is summarized as follows:

- No. 320381662, dated October 17, 2011, erect illuminated accessory wall sign.

Conclusions/Recommendations

Based on the results of the records review and interviews, it was determined that there was one REC identified with regard to the Site. This REC is summarized as follows:





- Given the long term use of the Site (1905 through circa 1965) as one or more metal foundries, there is a potential for historic site operations to have impacted soil, groundwater and/or soil vapor quality beneath the subject property.

Based upon the above findings and conclusions, EBC recommends following:

- To evaluate potential impacts related to historic usage of the subject property, a subsurface investigation should be performed. At a minimum, the investigation should include the installation of soil borings with the collection of representative soil, groundwater and/or soil vapor samples for laboratory analysis to document subsurface conditions and determine the nature and extent of contamination (if present).

In addition, the following environmental concern was identified:

- The Site has been assigned an E-designation for HazMat restriction (E-138) as part of the Greenpoint-Williamsburg Rezoning completed by the City in May 2005 (CEQR 04DCP003K).

An E-designation does not interfere with the present use of the Site; however, E-designations do prevent the release of building permits subject to a detailed environmental review and release by the NYC Office of Environmental Remediation. As such, EBC recommends the Site owner submit a soil and groundwater testing protocol to the NYC Department of Environmental Protection, Office of Environmental Planning and Assessment, and begin remediation activities once approved.

ATTACHMENT B
GROUNDWATER
PURGE LOGS



33 Franklin Street, Brooklyn

Date: 7/24/2019

Equipment: Peristaltic pump

Flow Rate:

[illegible]

Note $400\text{ ml} = 0.11\text{ gallons}$



33 Franklin Street, Brooklyn

Date: 7/24/2019

Equipment: Peristaltic pump

Flow Rate:

[illegible]

Note $400\text{ ml} = 0.11\text{ gallons}$



33 Franklin Street, Brooklyn

mw 3

Date: 7/24/2019

7/24/2019

Oct 11

(from TOC):

Equipment:

Peristaltic pump

70.9

r Level (from

89.5

ater in Well:

0.23

Water per We

Flow Rate:

[illegible]

Note 400 ml = 0.11 gallons



33 Franklin Street, Brooklyn

Date: 7/24/2019

Equipment: Peristaltic pump

7.64

4.56

0.19

Flow Rate:

[illegible]

Note $400\text{ ml} = 0.11\text{ gallons}$

ATTACHMENT C
SOIL BORING LOGS

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Location: 43' from western property boundary and 7' from southern property boundary.		Depth to Water (ft. from grade.)		Site Elevation Datum	
Site Name: ART1803		Address: 33 Franklin Street, Brooklyn		Date	DTW
				Ground Elevation	
Drilling Company:		Method:		Groundwater depth	
Eastern Environmental Solutions		Geoprobe 430M			
Date Started: 7/24/2019		Date Completed: 7/24/2019		Well Specifications	
Completion Depth: 9 Feet		Geologist: Tony Balado		None	

[illegible]

Geologic Boring Log Details



SB2 Boring Log

Location: 40' from western property boundary and 10' from northern property boundary.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: ART1803	Address: 33 Franklin Street, Brooklyn		Date	DTW
Drilling Company: Eastern Environmental Solutions		Method: Geoprobe 6610DT		Groundwater depth
				Well Specifications
Date Started: 7/23/2019		Date Completed: 7/23/2019		None
Completion Depth: 15 Feet		Geologist: Tony Balado		

SB2 (NTS)	DEPTH (ft below cellar grade)	SAMPLES			SOIL DESCRIPTION
		Reco- very (in.)	Blow per 6 in.	PID (ppm)	
	0				11" - Concrete
	to	43		0.1	17" - Brown sandy fill with brick
	5				15" - Damp brown coarse sand
	to	43		0.0	*Retained Soil Sample SB2(0-2)
	10				43" - Saturated fine brown sand
	to	40		0.0	*Retained Soil Sample SB2(5-7)
	15				40" - Saturated brown medium to coarse sand

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Location: 75' from western property boundary and 30' from northern property boundary		Depth to Water (ft. from grade.)		Site Elevation Datum	
Site Name: ART1803		Address: 33 Franklin Street, Brooklyn		Date	DTW
				Groundwater depth	
Drilling Company:		Method:		None	
Eastern Environmental Solutions		Geoprobe 6610DT			
Date Started: 7/23/2019		Date Completed: 7/23/2019			
Completion Depth: 15 Feet		Geologist Tony Balado			

[illegible]

Geologic Boring Log Details



SB4 Boring Log

Location: 28' from western property boundary and 15' from southern property boundary.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: ART1803	Address: 33 Franklin Street, Brooklyn		Date	DTW
Drilling Company: Eastern Environmental Solutions		Method: Geoprobe 6610DT		Groundwater depth
				Well Specifications
Date Started: 7/23/2019		Date Completed: 7/23/2019		None
Completion Depth: 15 Feet		Geologist: Tony Balado		

SB4 (NTS)	DEPTH (ft below cellar grade)	SAMPLES			SOIL DESCRIPTION
		Reco- very (in.)	Blow per 6 in.	PID (ppm)	
	0				12" - Concrete
	to	48		0.0	36" - Dry brown medium-fine sand
	5				*Retained Soil Sample SB4(0-2)
	to	52		0.0	20" - Damp brown medium sand
	10				32" - Saturated brown to gray silt
	to	52		0.0	*Retained Soil Sample SB4(5-7)
	15				32" - Saturated gray silty sand
					20" - Saturated meadow mat

Geologic Boring Log Details



SB5 Boring Log

Location: 70' from western property boundary and 40' from southern property boundary.		Depth to Water (ft. from grade.)		Site Elevation Datum	
Site Name: ART1803		Address: 33 Franklin Street, Brooklyn		Date	DTW
Drilling Company:		Method:		Groundwater depth	
Eastern Environmental Solutions		Geoprobe 430M		Well Specifications	
Date Started: 7/24/2019		Date Completed: 7/24/2019		None	
Completion Depth: 9 Feet		Geologist: Tony Balado			

SB5 (NTS)	DEPTH (ft below cellar grade)	SAMPLES			SOIL DESCRIPTION
		Reco- very (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	24		9.3	5" - Concrete 19" - Dry brown sandy fill with brick and asphalt <i>*Retained Soil Sample SB5(0-2)</i>
	3				
	to	34		0.2	12" - Moist fill with brick and asphalt 22" - Moist medium-coarse brown sand
	6				
	to	34		0.1	12" - Damp coarse brown sand 22" - Saturated gray silty sand <i>*Retained Soil Sample SB5(5-7)</i>
	9				

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Location: 28' from western property boundary and 40' from southern property boundary		Depth to Water (ft. from grade.)		Site Elevation Datum	
Site Name: ART1803		Address: 33 Franklin Street, Brooklyn		Date	DTW
				Ground Elevation	
Drilling Company:		Method:		Groundwater depth	
Eastern Environmental Solutions		Geoprobe 6610DT			
Date Started: 7/23/2019		Date Completed: 7/23/2019		Well Specifications	
Completion Depth: 10 Feet		Geologist Tony Balado		None	

[illegible]

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Location: 27' from western property boundary and 70' from southern property boundary		Depth to Water (ft. from grade.)		Site Elevation Datum	
Site Name: ART1803	Address: 33 Franklin Street, Brooklyn	Date	DTW	Ground Elevation	
Drilling Company: Eastern Environmental Solutions		Method: Geoprobe 6610DT		Groundwater depth	
Date Started: 7/23/2019		Date Completed: 7/23/2019		Well Specifications None	
Completion Depth: 10 Feet		Geologist Tony Balado			

[illegible]

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Location: 30' from northern property boundary and 20' from eastern property boundary		Depth to Water (ft. from grade.)		Site Elevation Datum	
Site Name: ART1803		Address: 33 Franklin Street, Brooklyn		Date	DTW
				Groundwater depth	
Drilling Company:		Method:		Well Specifications	
Eastern Environmental Solutions		Geoprobe 6610DT			
Date Started: 7/23/2019		Date Completed: 7/23/2019		None	
Completion Depth: 10 Feet		Geologist Tony Balado			

[illegible]

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Location: 30' from western property boundary and 50' from northern property boundary		Depth to Water (ft. from grade.)		Site Elevation Datum	
Site Name: ART1803		Address: 33 Franklin Street, Brooklyn		Date	DTW
				Groundwater depth	
Drilling Company:		Method:		Well Specifications	
Eastern Environmental Solutions		Geoprobe 6610DT			
Date Started: 7/23/2019		Date Completed: 7/23/2019		None	
Completion Depth: 10 Feet		Geologist Tony Balado			

[illegible]

ATTACHEMNT D
SOIL VAPOR SAMPLING LOGS



507 East Middle Turnpike P.O. Box 370, Manchester, CT 06040
Telephone: 860/645.1102 • Fax: 860/645.0823

CHAIN OF CUSTODY RECORD AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. #

Page 1 of 1

Data Delivery:

☐ Fax #:

☒ Email: file

☐ Phone #:

Report to: Tony Balado

Customer: zec

Address:

Invoice to:

Project Name: 33 Franklin St. Brooklyn

Requested Deliverable: RCP ☐ ASP CAT B ☐

MCP ☐ NI Deliverables ☐

Sampled by: Tony Balado

State where samples collected: NY

Phoenix ID #	Client Sample ID	THIS SECTION FOR LAB USE ONLY										Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)				
64983	SV5	28561	6.0	-30	-4	390	43	7:54	9:59	7-24-14	-29	-4	X		X	
64984	SV7	28577			-4	0250		7:42	9:37	7-24-14	-30	-5	X		X	
64985	SV6	16005			-5	2875		7:39	9:35	7-24-14	-29	-5	X		X	
64986	SV1	23330			-5	7016		7:45	9:47	7-24-14	-30	-5	X		X	
64987	SV3	172			-4	3300		7:53	10:00	7-24-14	-29	-5	X		X	
64988	SV2	28600			-3	0162		7:51	9:57	7-24-14	-30	-4	X		X	
64989	SV4	468			-2	6639		7:48	9:50	7-24-14	-30	-3	X		X	
64990		218				3408										

Relinquished by: Date: 7-24-14 Time: 12:45
Accepted by: Date: 7-24-14 Time: 16:10
Data Format: ☐ Excel ☐ Equis ☐ Other ☐

Turnaround Time:

Requested Criteria: (8) (60) (atp)
☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☒ Standard
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 listed on the back of this document.

Quote Number: Signature: Date:

ATTACHEMNT E
LABORATORY REPORTS IN
DIGITAL FORMAT



ANALYTICAL REPORT

Lab Number:	L1933533
Client:	Environmental Business Consultants Inc 1808 Middle Country Road Ridge, NY 11961
ATTN:	Charlie Sosik
Phone:	(631) 504-6000
Project Name:	33 FRANKLIN ST., BROOKLYN
Project Number:	UDI1901
Report Date:	08/09/19

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Lab Number: L1933533
Report Date: 08/09/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1933533-01	MW4	WATER	Not Specified	07/24/19 12:00	07/29/19

Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Lab Number: L1933533
Report Date: 08/09/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Lab Number: L1933533
Report Date: 08/09/19

Case Narrative (continued)

Perfluorinated Alkyl Acids by Isotope Dilution

WG1270042-3: The continuing calibration standard had the response for M2-6:2FtS outside the acceptance criteria for the method. The associated target analytes were within acceptance criteria; therefore, no further action was taken.

WG1270042-3: The continuing calibration standard had the response for NMeFOSAA outside the acceptance criteria for the method. This value represents less than 10% of all compounds; therefore, the calibration was accepted.

WG1270042-4: The continuing calibration standard had the response for M2-4:2FTS outside the acceptance criteria for the method. The associated target analytes were within acceptance criteria; therefore, no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Elizabeth Porta

Title: Technical Director/Representative

Date: 08/09/19

ORGANICS

SEMIVOLATILES

Project Name: 33 FRANKLIN ST., BROOKLYN**Lab Number:** L1933533**Project Number:** UDI1901**Report Date:** 08/09/19**SAMPLE RESULTS**

Lab ID: L1933533-01

Date Collected: 07/24/19 12:00

Client ID: MW4

Date Received: 07/29/19

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 537

Analytical Method: 122,537(M)

Extraction Date: 08/07/19 18:09

Analytical Date: 08/08/19 20:15

Analyst: JW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	17.0		ng/l	1.95	--	1
Perfluoropentanoic Acid (PFPeA)	6.51		ng/l	1.95	--	1
Perfluorobutanesulfonic Acid (PFBS)	2.62		ng/l	1.95	--	1
Perfluorohexanoic Acid (PFHxA)	7.63		ng/l	1.95	--	1
Perfluoroheptanoic Acid (PFHpA)	10.6		ng/l	1.95	--	1
Perfluorohexanesulfonic Acid (PFHxS)	2.36		ng/l	1.95	--	1
Perfluorooctanoic Acid (PFOA)	52.5		ng/l	1.95	--	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.95	--	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.95	--	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.95	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.95	--	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.95	--	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.95	--	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.95	--	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.95	--	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.95	--	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.95	--	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.95	--	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.95	--	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.95	--	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.95	--	1
PFOA/PFOS, Total	52.5		ng/l	1.95	--	1

Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Lab Number: L1933533
Report Date: 08/09/19

SAMPLE RESULTS

Lab ID: L1933533-01
Client ID: MW4
Sample Location: Not Specified

Date Collected: 07/24/19 12:00
Date Received: 07/29/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	85		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	63		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	69		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	74		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	82		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	74		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	72		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	44		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	64		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	31		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	41		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	58		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		33-143

Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Lab Number: L1933533
Report Date: 08/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 08/08/19 14:27
Analyst: JW

Extraction Method: EPA 537
Extraction Date: 08/07/19 18:09

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1269720-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	--
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	--
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	--
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	--
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	--
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	--
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	--
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	--
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	--
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	--
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	--
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	--
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	--
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	--
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	--
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	--
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	--
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	--
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	--
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	--
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	--
PFOA/PFOS, Total	ND		ng/l	2.00	--

Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Lab Number: L1933533
Report Date: 08/09/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 122,537(M)
Analytical Date: 08/08/19 14:27
Analyst: JW

Extraction Method: EPA 537
Extraction Date: 08/07/19 18:09

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1269720-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	50		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	82		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	55		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	82		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	39		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NetFOSAA)	68		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		33-143

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 33 FRANKLIN ST., BROOKLYN

Project Number: UDI1901

Lab Number: L1933533

Report Date: 08/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1269720-2 WG1269720-3								
Perfluorobutanoic Acid (PFBA)	100		99		67-148	1		30
Perfluoropentanoic Acid (PFPeA)	94		93		63-161	1		30
Perfluorobutanesulfonic Acid (PFBS)	76		77		65-157	1		30
Perfluorohexanoic Acid (PFHxA)	100		97		69-168	3		30
Perfluoroheptanoic Acid (PFHpA)	100		100		58-159	0		30
Perfluorohexanesulfonic Acid (PFHxS)	102		99		69-177	3		30
Perfluorooctanoic Acid (PFOA)	100		98		63-159	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	124		117		49-187	6		30
Perfluoroheptanesulfonic Acid (PFHpS)	95		90		61-179	5		30
Perfluorononanoic Acid (PFNA)	96		97		68-171	1		30
Perfluorooctanesulfonic Acid (PFOS)	102		98		52-151	4		30
Perfluorodecanoic Acid (PFDA)	100		97		63-171	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	82		81		56-173	1		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	100		94		60-166	6		30
Perfluoroundecanoic Acid (PFUnA)	96		96		60-153	0		30
Perfluorodecanesulfonic Acid (PFDS)	96		90		38-156	6		30
Perfluorooctanesulfonamide (FOSA)	84		78		46-170	7		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	90		96		45-170	6		30
Perfluorododecanoic Acid (PFDoA)	103		99		67-153	4		30
Perfluorotridecanoic Acid (PFTrDA)	115		110		48-158	4		30
Perfluorotetradecanoic Acid (PFTA)	103		102		59-182	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Lab Number: L1933533
Report Date: 08/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1269720-2 WG1269720-3								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		87		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		100		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		85		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		84		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		83		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	84		80		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		86		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	49		52		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		88		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		81		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		82		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	75		66		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		70		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	85		80		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37		32		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		70		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		77		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		80		33-143

Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Serial_No:08091917:27
Lab Number: L1933533
Report Date: 08/09/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1933533-01A	2 Plastic/1 Plastic/1 H2O Plastic	A	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L1933533-01B	2 Plastic/1 Plastic/1 H2O Plastic	A	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)

Project Name: 33 FRANKLIN ST., BROOKLYN**Lab Number:** L1933533**Project Number:** UDI1901**Report Date:** 08/09/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Lab Number: L1933533
Report Date: 08/09/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Project Name: 33 FRANKLIN ST., BROOKLYN
Project Number: UDI1901

Lab Number: L1933533
Report Date: 08/09/19

REFERENCES

- 122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Tithum 7/30/19 0445 Tithum 7/30/19 0445
~~B B A~~ 7/30/19 0445.



ANALYTICAL REPORT

Lab Number:	L1932682
Client:	Environmental Business Consultants Inc 1808 Middle Country Road Ridge, NY 11961
ATTN:	Maggie Ellis
Phone:	(631) 504-6000
Project Name:	Not Specified
Project Number:	UDI1901
Report Date:	08/09/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: Not Specified
Project Number: UDI1901

Lab Number: L1932682
Report Date: 08/09/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1932682-01	SB6(5-7)	SOIL	33 FRANKLIN STREET, BROOKLYN	07/22/19 08:01	07/24/19

Project Name: Not Specified
Project Number: UDI1901

Lab Number: L1932682
Report Date: 08/09/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: Not Specified
Project Number: UDI1901

Lab Number: L1932682
Report Date: 08/09/19

Case Narrative (continued)

Perfluorinated Alkyl Acids by Isotope Dilution

L1932682-01: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The WG1269055-3 LCSD recovery, associated with L1932682-01, is above the acceptance criteria for perfluoropentanesulfonic acid (pfpes) (128%) and perfluorooctanesulfonamide (fosa) (146%); however, the associated samples are non-detect to the RL for these target analytes. The results of the original analysis are reported.

WG1269997-7: The continuing calibration standard had the response for Perfluorooctanesulfonic Acid-Branched (br-PFOS) outside of acceptance criteria. The response for Perfluorooctanesulfonic Acid (PFOS) was within acceptance criteria; therefore, no further action was taken.

WG1269997-7: The continuing calibration standard had the response for PFDA is above the acceptance criteria for the method. The associated samples were non-detect; therefore, no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Elizabeth Porta

Title: Technical Director/Representative

Date: 08/09/19

ORGANICS

SEMIVOLATILES

Project Name: Not Specified

Lab Number: L1932682

Project Number: UDI1901

Report Date: 08/09/19

SAMPLE RESULTS

Lab ID: L1932682-01
 Client ID: SB6(5-7)
 Sample Location: 33 FRANKLIN STREET, BROOKLYN

Date Collected: 07/22/19 08:01
 Date Received: 07/24/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 08/09/19 02:46
 Analyst: AJ
 Percent Solids: 80%

Extraction Method: EPA 537(M)
 Extraction Date: 08/06/19 10:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.14	--	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.14	--	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.14	--	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.14	--	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.14	--	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.14	--	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.14	--	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.14	--	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.14	--	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.14	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.14	--	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.14	--	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.14	--	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.14	--	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.14	--	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.14	--	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.14	--	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.14	--	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.14	--	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.14	--	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.14	--	1
PFOA/PFOS, Total	ND		ug/kg	1.14	--	1

Project Name: Not Specified

Lab Number: L1932682

Project Number: UDI1901

Report Date: 08/09/19

SAMPLE RESULTS

Lab ID: L1932682-01

Date Collected: 07/22/19 08:01

Client ID: SB6(5-7)

Date Received: 07/24/19

Sample Location: 33 FRANKLIN STREET, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	71		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	79		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	75		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	78		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	32		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	71		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	72		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	31		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	20	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	70		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	17	Q	42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	72		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		26-160

Project Name: Not Specified

Project Number: UDI1901

Lab Number: L1932682

Report Date: 08/09/19

Method Blank Analysis Batch Quality Control

Analytical Method: 122,537(M)
 Analytical Date: 08/08/19 22:48
 Analyst: AJ

Extraction Method: EPA 537(M)
 Extraction Date: 08/06/19 10:03

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1269055-1					
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.00	--
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.00	--
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.00	--
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.00	--
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.00	--
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.00	--
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.00	--
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.00	--
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.00	--
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.00	--
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.00	--
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.00	--
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.00	--
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.00	--
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.00	--
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.00	--
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.00	--
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.00	--
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.00	--
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.00	--
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.00	--
PFOA/PFOS, Total	ND		ug/kg	1.00	--

Project Name: Not Specified
Project Number: UDI1901

Lab Number: L1932682
Report Date: 08/09/19

Method Blank Analysis Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 08/08/19 22:48
Analyst: AJ

Extraction Method: EPA 537(M)
Extraction Date: 08/06/19 10:03

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1269055-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	83		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NetFOSAA)	81		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93		26-160

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Project Number: UDI1901

Lab Number: L1932682

Report Date: 08/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1269055-2 WG1269055-3								
Perfluorobutanoic Acid (PFBA)	110		112		71-135	2		30
Perfluoropentanoic Acid (PFPeA)	113		116		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	108		112		72-128	4		30
Perfluorohexanoic Acid (PFHxA)	120		123		70-132	2		30
Perfluoroheptanoic Acid (PFHpA)	113		110		71-131	3		30
Perfluorohexanesulfonic Acid (PFHxS)	116		124		67-130	7		30
Perfluorooctanoic Acid (PFOA)	114		116		69-133	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	120		132		64-140	10		30
Perfluoroheptanesulfonic Acid (PFHpS)	118		119		70-132	1		30
Perfluorononanoic Acid (PFNA)	117		121		72-129	3		30
Perfluorooctanesulfonic Acid (PFOS)	100		103		68-136	3		30
Perfluorodecanoic Acid (PFDA)	120		104		69-133	14		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	119		115		65-137	3		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	124		106		63-144	16		30
Perfluoroundecanoic Acid (PFUnA)	108		117		64-136	8		30
Perfluorodecanesulfonic Acid (PFDS)	116		119		59-134	3		30
Perfluorooctanesulfonamide (FOSA)	123		146	Q	67-137	17		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	110		138		61-139	23		30
Perfluorododecanoic Acid (PFDoA)	93		94		69-135	1		30
Perfluorotridecanoic Acid (PFTrDA)	104		102		66-139	2		30
Perfluorotetradecanoic Acid (PFTA)	118		122		69-133	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Project Number: UDI1901

Lab Number: L1932682

Report Date: 08/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1269055-2 WG1269055-3								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		80		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		88		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		95		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		92		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		91		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		89		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	85		88		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	65		60		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		86		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		91		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		99		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	70		65		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		80		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		90		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12		5		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	66		59		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		96		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	89		92		26-160

INORGANICS & MISCELLANEOUS

Project Name: Not Specified**Project Number:** UDI1901**Lab Number:** L1932682**Report Date:** 08/09/19**SAMPLE RESULTS****Lab ID:** L1932682-01**Client ID:** SB6(5-7)**Sample Location:** 33 FRANKLIN STREET, BROOKLYN**Date Collected:** 07/22/19 08:01**Date Received:** 07/24/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	79.5		%	0.100	--	1	-	07/26/19 01:42	121,2540G	CC



Lab Duplicate Analysis
*Batch Quality Control***Project Name:** Not Specified**Project Number:** UDI1901**Lab Number:** L1932682**Report Date:** 08/09/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1264731-1 QC Sample: L1932686-01 Client ID: DUP Sample						
Solids, Total	86.2	86.9	%	1		10

Project Name: Not Specified**Lab Number:** L1932682**Project Number:** UDI1901**Report Date:** 08/09/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932682-01A	Plastic 8oz unpreserved	A	NA		3.4	Y	Absent		A2-NY-537-ISOTOPE(28)
L1932682-01B	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		A2-TS(7)

Project Name: Not Specified

Lab Number: L1932682

Project Number: UDI1901

Report Date: 08/09/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: Not Specified**Lab Number:** L1932682**Project Number:** UDI1901**Report Date:** 08/09/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Project Name: Not Specified
Project Number: UDI1901

Lab Number: L1932682
Report Date: 08/09/19

REFERENCES

- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 14

Published Date: 8/9/2019 9:53:42 AM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

7/25/10

L193262

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.



Thursday, August 08, 2019

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

Project ID: 33 FRANKLIN ST BROOKLYN
SDG ID: GCD65023
Sample ID#s: CD65023 - CD65026, CD65028

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. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
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
UT Lab Registration #CT00007
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



SDG Comments

August 08, 2019

SDG I.D.: GCD65023

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.



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



Sample Id Cross Reference

August 08, 2019

SDG I.D.: GCD65023

Project ID: 33 FRANKLIN ST BROOKLYN

Client Id	Lab Id	Matrix
SB 1 (0-2)	CD65023	SOIL
SB 1 (5-7)	CD65024	SOIL
SB 5 (0-2)	CD65025	SOIL
SB 5 (5-7)	CD65026	SOIL
TRIP BLANK LL	CD65028	SOIL



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



Analysis Report

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/24/19
07/25/19

Time

9:47
16:10

Laboratory Data

SDG ID: GCD65023
Phoenix ID: CD65023

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB 1 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Aluminum	6890	35		mg/Kg	10	07/29/19	EK	SW6010D
Arsenic	19.6	0.70		mg/Kg	1	07/29/19	EK	SW6010D
Barium	662	0.7		mg/Kg	1	07/29/19	EK	SW6010D
Beryllium	0.49	0.28		mg/Kg	1	07/29/19	EK	SW6010D
Calcium	8340	3.5		mg/Kg	1	07/29/19	EK	SW6010D
Cadmium	6.56	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Cobalt	12.9	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Chromium	43.7	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Copper	166	7.0		mg/kg	10	07/29/19	EK	SW6010D
Iron	62300	35		mg/Kg	10	08/01/19	TH	SW6010D
Mercury	2.51	0.15		mg/Kg	10	07/26/19	RS	SW7471B
Potassium	1150	7		mg/Kg	1	07/29/19	EK	SW6010D
Magnesium	2120	3.5		mg/Kg	1	07/29/19	EK	SW6010D
Manganese	331	3.5		mg/Kg	10	07/29/19	EK	SW6010D
Sodium	497	7		mg/Kg	1	07/29/19	EK	SW6010D
Nickel	55.7	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Lead	666	7.0		mg/Kg	10	07/29/19	EK	SW6010D
Antimony	7.2	3.5		mg/Kg	1	07/29/19	EK	SW6010D
Selenium	< 2.5	2.5		mg/Kg	1	07/29/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/29/19	EK	SW6010D
Vanadium	35.4	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Zinc	1300	7.0		mg/Kg	10	07/29/19	EK	SW6010D
Percent Solid	89			%		07/25/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/25/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/25/19	NM/NT/EES	SW3545A
Mercury Digestion	Completed					07/26/19	I/I	SW7471B
Total Metals Digest	Completed					07/25/19	B/AG/T	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	74	74	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1221	ND	74	74	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1232	ND	74	74	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1242	ND	74	74	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1248	ND	74	74	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1254	ND	74	74	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1260	ND	74	74	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1262	ND	74	74	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1268	ND	74	74	ug/Kg	2	07/29/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	Interference			%	2	07/29/19	SC	30 - 150 %
% DCBP (Confirmation)	Interference			%	2	07/29/19	SC	30 - 150 %
% TCMX	132			%	2	07/29/19	SC	30 - 150 %
% TCMX (Confirmation)	96			%	2	07/29/19	SC	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
1,1,1-Trichloroethane	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
1,1,2-Trichloroethane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
1,1-Dichloroethane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
1,1-Dichloroethene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,1-Dichloropropene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
1,2,3-Trichloropropane	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
1,2-Dibromoethane	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,2-Dichlorobenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,2-Dichloroethane	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,2-Dichloropropane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,3-Dichlorobenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
1,3-Dichloropropane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
1,4-Dichlorobenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
2,2-Dichloropropane	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
2-Chlorotoluene	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
2-Hexanone	ND	28	5.5	ug/Kg	1	07/26/19	PS	SW8260C
2-Isopropyltoluene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
4-Chlorotoluene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
4-Methyl-2-pentanone	ND	28	5.5	ug/Kg	1	07/26/19	PS	SW8260C
Acetone	ND	28	5.5	ug/Kg	1	07/26/19	PS	SW8260C
Acrylonitrile	ND	11	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Benzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Bromobenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Bromochloromethane	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Bromodichloromethane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Bromomethane	ND	5.5	2.2	ug/Kg	1	07/26/19	PS	SW8260C
Carbon Disulfide	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Carbon tetrachloride	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Chlorobenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Chloroethane	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Chloroform	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Chloromethane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
cis-1,2-Dichloroethene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
cis-1,3-Dichloropropene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Dibromochloromethane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Dibromomethane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Dichlorodifluoromethane	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Ethylbenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Hexachlorobutadiene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Isopropylbenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
m&p-Xylene	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Methyl Ethyl Ketone	ND	33	5.5	ug/Kg	1	07/26/19	PS	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Methylene chloride	ND	5.5	5.5	ug/Kg	1	07/26/19	PS	SW8260C
Naphthalene	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
n-Butylbenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
n-Propylbenzene	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
o-Xylene	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
p-Isopropyltoluene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
sec-Butylbenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Styrene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
tert-Butylbenzene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Tetrachloroethene	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Tetrahydrofuran (THF)	ND	11	2.9	ug/Kg	1	07/26/19	PS	SW8260C
Toluene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
trans-1,2-Dichloroethene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
trans-1,3-Dichloropropene	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
trans-1,4-dichloro-2-butene	ND	11	2.8	ug/Kg	1	07/26/19	PS	SW8260C
Trichloroethene	3.0	J 5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Trichlorofluoromethane	ND	5.5	1.1	ug/Kg	1	07/26/19	PS	SW8260C
Trichlorotrifluoroethane	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
Vinyl chloride	ND	5.5	0.55	ug/Kg	1	07/26/19	PS	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/26/19	PS	70 - 130 %
% Bromofluorobenzene	92			%	1	07/26/19	PS	70 - 130 %
% Dibromofluoromethane	99			%	1	07/26/19	PS	70 - 130 %
% Toluene-d8	97			%	1	07/26/19	PS	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	83		ug/kg	1	07/26/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene	92			%	1	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane	99			%	1	07/26/19	JLI	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	97			%	1	07/26/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	22		ug/Kg	1	07/26/19	JLI	SW8260C
Acrolein	ND	5.5		ug/Kg	1	07/26/19	JLI	SW8260C
Acrylonitrile	ND	22		ug/Kg	1	07/26/19	JLI	SW8260C
Tert-butyl alcohol	ND	110		ug/Kg	1	07/26/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	07/26/19	AW	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	07/26/19	AW	SW8270D
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	07/26/19	AW	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	07/26/19	AW	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	07/26/19	AW	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	07/26/19	AW	SW8270D
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	07/26/19	AW	SW8270D
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	07/26/19	AW	SW8270D
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	07/26/19	AW	SW8270D
2,4-Dimethylphenol	ND	260	91	ug/Kg	1	07/26/19	AW	SW8270D
2,4-Dinitrophenol	ND	260	260	ug/Kg	1	07/26/19	AW	SW8270D
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	07/26/19	AW	SW8270D
2,6-Dinitrotoluene	ND	180	120	ug/Kg	1	07/26/19	AW	SW8270D
2-Chloronaphthalene	ND	260	100	ug/Kg	1	07/26/19	AW	SW8270D
2-Chlorophenol	ND	260	100	ug/Kg	1	07/26/19	AW	SW8270D
2-Methylnaphthalene	540	260	110	ug/Kg	1	07/26/19	AW	SW8270D
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	07/26/19	AW	SW8270D
2-Nitroaniline	ND	260	260	ug/Kg	1	07/26/19	AW	SW8270D
2-Nitrophenol	ND	260	230	ug/Kg	1	07/26/19	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	140	ug/Kg	1	07/26/19	AW	SW8270D
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	07/26/19	AW	SW8270D
3-Nitroaniline	ND	370	730	ug/Kg	1	07/26/19	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	220	73	ug/Kg	1	07/26/19	AW	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	07/26/19	AW	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	07/26/19	AW	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	07/26/19	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	07/26/19	AW	SW8270D
4-Nitroaniline	ND	370	120	ug/Kg	1	07/26/19	AW	SW8270D
4-Nitrophenol	ND	370	170	ug/Kg	1	07/26/19	AW	SW8270D
Acenaphthene	480	260	110	ug/Kg	1	07/26/19	AW	SW8270D
Acenaphthylene	920	260	100	ug/Kg	1	07/26/19	AW	SW8270D
Acetophenone	ND	260	110	ug/Kg	1	07/26/19	AW	SW8270D
Aniline	ND	290	290	ug/Kg	1	07/26/19	AW	SW8270D
Anthracene	1600	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Benz(a)anthracene	1800	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Benzidine	ND	370	220	ug/Kg	1	07/26/19	AW	SW8270D
Benzo(a)pyrene	3200	180	120	ug/Kg	1	07/26/19	AW	SW8270D
Benzo(b)fluoranthene	5100	260	130	ug/Kg	1	07/26/19	AW	SW8270D
Benzo(ghi)perylene	1900	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Benzo(k)fluoranthene	2400	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Benzoic acid	ND	1800	730	ug/Kg	1	07/26/19	AW	SW8270D

1

Client ID: SB 1 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	260	94	ug/Kg	1	07/26/19	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	07/26/19	AW	SW8270D
Bis(2-chloroethyl)ether	ND	180	99	ug/Kg	1	07/26/19	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	07/26/19	AW	SW8270D
Bis(2-ethylhexyl)phthalate	51000	2600	1100	ug/Kg	10	07/29/19	AW	SW8270D
Carbazole	810	180	150	ug/Kg	1	07/26/19	AW	SW8270D
Chrysene	4800	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Dibenz(a,h)anthracene	820	180	120	ug/Kg	1	07/26/19	AW	SW8270D
Dibenzofuran	880	260	110	ug/Kg	1	07/26/19	AW	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	07/26/19	AW	SW8270D
Di-n-butylphthalate	140	260	97	ug/Kg	1	07/26/19	AW	SW8270D
Di-n-octylphthalate	ND	260	94	ug/Kg	1	07/26/19	AW	SW8270D
Fluoranthene	4800	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Fluorene	510	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Hexachlorobenzene	ND	180	110	ug/Kg	1	07/26/19	AW	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	07/26/19	AW	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	07/26/19	AW	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	07/26/19	AW	SW8270D
Indeno(1,2,3-cd)pyrene	2500	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Isophorone	ND	180	100	ug/Kg	1	07/26/19	AW	SW8270D
Naphthalene	1100	260	110	ug/Kg	1	07/26/19	AW	SW8270D
Nitrobenzene	ND	180	130	ug/Kg	1	07/26/19	AW	SW8270D
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	07/26/19	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	07/26/19	AW	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	07/26/19	AW	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	07/26/19	AW	SW8270D
Pentachlorophenol	ND	220	150	ug/Kg	1	07/26/19	AW	SW8270D
Phenanthrene	3100	260	100	ug/Kg	1	07/26/19	AW	SW8270D
Phenol	ND	260	120	ug/Kg	1	07/26/19	AW	SW8270D
Pyrene	4600	260	130	ug/Kg	1	07/26/19	AW	SW8270D
Pyridine	ND	260	90	ug/Kg	1	07/26/19	AW	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	65			%	1	07/26/19	AW	30 - 130 %
% 2-Fluorobiphenyl	61			%	1	07/26/19	AW	30 - 130 %
% 2-Fluorophenol	47			%	1	07/26/19	AW	30 - 130 %
% Nitrobenzene-d5	67			%	1	07/26/19	AW	30 - 130 %
% Phenol-d5	65			%	1	07/26/19	AW	30 - 130 %
% Terphenyl-d14	80			%	1	07/26/19	AW	30 - 130 %
% 2,4,6-Tribromophenol (10x)	Diluted Out			%	10	07/29/19	AW	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out			%	10	07/29/19	AW	30 - 130 %
% 2-Fluorophenol (10x)	Diluted Out			%	10	07/29/19	AW	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out			%	10	07/29/19	AW	30 - 130 %
% Phenol-d5 (10x)	Diluted Out			%	10	07/29/19	AW	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out			%	10	07/29/19	AW	30 - 130 %
Field Extraction	Completed					07/24/19		SW5035A

1

Client ID: SB 1 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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.

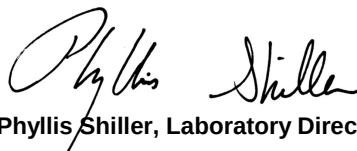
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

PCB Comment:

Due to matrix interference from non target compounds in the sample, surrogate could not be reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/24/19
07/25/19

Time

10:04
16:10

Laboratory Data

SDG ID: GCD65023
Phoenix ID: CD65024

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB 1 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Aluminum	6810	35		mg/Kg	10	07/29/19	EK	SW6010D
Arsenic	1.63	0.71		mg/Kg	1	07/29/19	EK	SW6010D
Barium	53.4	0.7		mg/Kg	1	07/29/19	EK	SW6010D
Beryllium	0.35	0.28		mg/Kg	1	07/29/19	EK	SW6010D
Calcium	1110	3.5		mg/Kg	1	07/29/19	EK	SW6010D
Cadmium	< 0.35	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Cobalt	8.58	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Chromium	18.2	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Copper	18.5	0.7		mg/kg	1	07/29/19	EK	SW6010D
Iron	16700	35		mg/Kg	10	08/01/19	TH	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	07/26/19	RS	SW7471B
Potassium	2350	7		mg/Kg	1	07/29/19	EK	SW6010D
Magnesium	3060	3.5		mg/Kg	1	07/29/19	EK	SW6010D
Manganese	371	3.5		mg/Kg	10	07/29/19	EK	SW6010D
Sodium	107	7		mg/Kg	1	07/29/19	EK	SW6010D
Nickel	12.8	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Lead	4.4	0.7		mg/Kg	1	07/29/19	EK	SW6010D
Antimony	< 3.5	3.5		mg/Kg	1	07/29/19	EK	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	07/29/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/29/19	EK	SW6010D
Vanadium	24.0	0.35		mg/Kg	1	07/29/19	EK	SW6010D
Zinc	35.5	0.7		mg/Kg	1	07/29/19	EK	SW6010D
Percent Solid	94			%		07/25/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/25/19	MM/E	SW3545A
Soil Extraction for Pesticides	Completed					07/25/19	MM/E	SW3545A
Soil Extraction for SVOA	Completed					07/25/19	NM/NT/LV	SW3545A
Mercury Digestion	Completed					07/26/19	I/I	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/25/19	B/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	69	69	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1221	ND	69	69	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1232	ND	69	69	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1242	ND	69	69	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1248	ND	69	69	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1254	ND	69	69	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1260	ND	69	69	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1262	ND	69	69	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1268	ND	69	69	ug/Kg	2	07/29/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	58			%	2	07/29/19	SC	30 - 150 %
% DCBP (Confirmation)	63			%	2	07/29/19	SC	30 - 150 %
% TCMX	61			%	2	07/29/19	SC	30 - 150 %
% TCMX (Confirmation)	62			%	2	07/29/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.1		ug/Kg	2	07/28/19	AW	SW8081B
4,4' -DDE	ND	2.1		ug/Kg	2	07/28/19	AW	SW8081B
4,4' -DDT	ND	2.1		ug/Kg	2	07/28/19	AW	SW8081B
a-BHC	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
a-Chlordane	ND	3.5		ug/Kg	2	07/28/19	AW	SW8081B
Aldrin	ND	3.5		ug/Kg	2	07/28/19	AW	SW8081B
b-BHC	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
Chlordane	ND	35		ug/Kg	2	07/28/19	AW	SW8081B
d-BHC	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
Dieldrin	ND	3.5		ug/Kg	2	07/28/19	AW	SW8081B
Endosulfan I	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
Endosulfan II	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
Endosulfan sulfate	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
Endrin	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
Endrin aldehyde	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
Endrin ketone	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
g-BHC	ND	1.4		ug/Kg	2	07/28/19	AW	SW8081B
g-Chlordane	ND	3.5		ug/Kg	2	07/28/19	AW	SW8081B
Heptachlor	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
Heptachlor epoxide	ND	6.9		ug/Kg	2	07/28/19	AW	SW8081B
Methoxychlor	ND	35		ug/Kg	2	07/28/19	AW	SW8081B
Toxaphene	ND	140		ug/Kg	2	07/28/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	59			%	2	07/28/19	AW	30 - 150 %
% DCBP (Confirmation)	60			%	2	07/28/19	AW	30 - 150 %
% TCMX	51			%	2	07/28/19	AW	30 - 150 %
% TCMX (Confirmation)	55			%	2	07/28/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
1,1-Dichloroethane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
1,1-Dichloroethene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
1,1-Dichloropropene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dibromoethane	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dichloroethane	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dichloropropane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
1,3-Dichloropropane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
2,2-Dichloropropane	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
2-Chlorotoluene	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
2-Hexanone	ND	43	8.6	ug/Kg	1	07/26/19	JLI	SW8260C
2-Isopropyltoluene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
4-Chlorotoluene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	43	8.6	ug/Kg	1	07/26/19	JLI	SW8260C
Acetone	ND	43	8.6	ug/Kg	1	07/26/19	JLI	SW8260C
Acrylonitrile	ND	17	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Benzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Bromobenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Bromochloromethane	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Bromodichloromethane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Bromoform	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Bromomethane	ND	8.6	3.4	ug/Kg	1	07/26/19	JLI	SW8260C
Carbon Disulfide	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Carbon tetrachloride	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Chlorobenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Chloroethane	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Chloroform	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Chloromethane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Dibromochloromethane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Dibromomethane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Dichlorodifluoromethane	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Ethylbenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Hexachlorobutadiene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Isopropylbenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
m&p-Xylene	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	52	8.6	ug/Kg	1	07/26/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	17	1.7	ug/Kg	1	07/26/19	JLI	SW8260C

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	8.6	8.6	ug/Kg	1	07/26/19	JLI	SW8260C
Naphthalene	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
n-Butylbenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
n-Propylbenzene	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
o-Xylene	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
p-Isopropyltoluene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
sec-Butylbenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Styrene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
tert-Butylbenzene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Tetrachloroethene	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	17	4.3	ug/Kg	1	07/26/19	JLI	SW8260C
Toluene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	17	4.3	ug/Kg	1	07/26/19	JLI	SW8260C
Trichloroethene	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Trichlorofluoromethane	ND	8.6	1.7	ug/Kg	1	07/26/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
Vinyl chloride	ND	8.6	0.86	ug/Kg	1	07/26/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene	97			%	1	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane	96			%	1	07/26/19	JLI	70 - 130 %
% Toluene-d8	100			%	1	07/26/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100		ug/kg	1	07/26/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene	97			%	1	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane	96			%	1	07/26/19	JLI	70 - 130 %
% Toluene-d8	100			%	1	07/26/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	34		ug/Kg	1	07/26/19	JLI	SW8260C
Acrolein	ND	8.6		ug/Kg	1	07/26/19	JLI	SW8260C
Acrylonitrile	ND	34		ug/Kg	1	07/26/19	JLI	SW8260C
Tert-butyl alcohol	ND	170		ug/Kg	1	07/26/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
1,2-Dichlorobenzene	ND	250	99	ug/Kg	1	07/26/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	07/26/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dimethylphenol	ND	250	87	ug/Kg	1	07/26/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	07/26/19	WB	SW8270D
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
2-Chloronaphthalene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
2-Chlorophenol	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
2-Methylnaphthalene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	07/26/19	WB	SW8270D
2-Nitroaniline	ND	250	250	ug/Kg	1	07/26/19	WB	SW8270D
2-Nitrophenol	ND	250	220	ug/Kg	1	07/26/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	07/26/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	07/26/19	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	07/26/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	07/26/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	07/26/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	07/26/19	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	07/26/19	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Acenaphthylene	ND	250	99	ug/Kg	1	07/26/19	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	07/26/19	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(a)pyrene	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzoic acid	ND	1800	700	ug/Kg	1	07/26/19	WB	SW8270D
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	95	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	98	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	07/26/19	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	07/26/19	WB	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	1	07/26/19	WB	SW8270D
Fluoranthene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	07/26/19	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Isophorone	ND	180	99	ug/Kg	1	07/26/19	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	07/26/19	WB	SW8270D
N-Nitrosodimethylamine	ND	250	99	ug/Kg	1	07/26/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	07/26/19	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	07/26/19	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Phenol	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Pyridine	ND	250	87	ug/Kg	1	07/26/19	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	52			%	1	07/26/19	WB	30 - 130 %
% 2-Fluorobiphenyl	59			%	1	07/26/19	WB	30 - 130 %
% 2-Fluorophenol	54			%	1	07/26/19	WB	30 - 130 %
% Nitrobenzene-d5	56			%	1	07/26/19	WB	30 - 130 %
% Phenol-d5	63			%	1	07/26/19	WB	30 - 130 %
% Terphenyl-d14	63			%	1	07/26/19	WB	30 - 130 %
Field Extraction	Completed					07/24/19		SW5035A

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1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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.

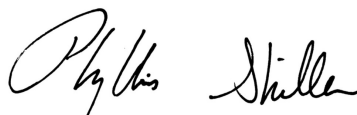
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/24/19
07/25/19

Time

9:47
16:10

Laboratory Data

SDG ID: GCD65023
Phoenix ID: CD65025

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB 5 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Aluminum	6230	34		mg/Kg	10	07/29/19	EK	SW6010D
Arsenic	15.3	0.68		mg/Kg	1	07/29/19	EK	SW6010D
Barium	283	0.7		mg/Kg	1	07/29/19	EK	SW6010D
Beryllium	0.39	0.27		mg/Kg	1	07/29/19	EK	SW6010D
Calcium	5220	3.4		mg/Kg	1	07/29/19	EK	SW6010D
Cadmium	1.73	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Cobalt	12.5	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Chromium	25.5	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Copper	150	6.8		mg/kg	10	07/29/19	EK	SW6010D
Iron	39400	34		mg/Kg	10	08/01/19	TH	SW6010D
Mercury	15.0	0.72		mg/Kg	50	07/26/19	RS	SW7471B
Potassium	1390	7		mg/Kg	1	07/29/19	EK	SW6010D
Magnesium	2300	3.4		mg/Kg	1	07/29/19	EK	SW6010D
Manganese	359	3.4		mg/Kg	10	07/29/19	EK	SW6010D
Sodium	336	7		mg/Kg	1	07/29/19	EK	SW6010D
Nickel	28.8	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Lead	739	6.8		mg/Kg	10	07/29/19	EK	SW6010D
Antimony	6.9	3.4		mg/Kg	1	07/29/19	EK	SW6010D
Selenium	< 2.5	2.5		mg/Kg	1	07/29/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/29/19	EK	SW6010D
Vanadium	24.8	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Zinc	367	6.8		mg/Kg	10	07/29/19	EK	SW6010D
Percent Solid	91			%		07/25/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/25/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/25/19	NM/NT/EESW	SW3545A
Mercury Digestion	Completed					07/26/19	I/I	SW7471B
Total Metals Digest	Completed					07/25/19	B/AG/T	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	73	73	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1221	ND	73	73	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1232	ND	73	73	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1242	ND	73	73	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1248	ND	73	73	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1254	ND	73	73	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1260	ND	73	73	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1262	ND	73	73	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1268	ND	73	73	ug/Kg	2	07/29/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	116			%	2	07/29/19	SC	30 - 150 %
% DCBP (Confirmation)	95			%	2	07/29/19	SC	30 - 150 %
% TCMX	85			%	2	07/29/19	SC	30 - 150 %
% TCMX (Confirmation)	97			%	2	07/29/19	SC	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
1,1-Dichloroethane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
1,1-Dichloroethene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,1-Dichloropropene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dibromoethane	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dichloroethane	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dichloropropane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
1,3-Dichloropropane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
2,2-Dichloropropane	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
2-Chlorotoluene	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
2-Hexanone	ND	31	6.2	ug/Kg	1	07/26/19	JLI	SW8260C
2-Isopropyltoluene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
4-Chlorotoluene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	6.2	ug/Kg	1	07/26/19	JLI	SW8260C
Acetone	ND	31	6.2	ug/Kg	1	07/26/19	JLI	SW8260C
Acrylonitrile	ND	12	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
Benzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Bromobenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Bromochloromethane	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Bromodichloromethane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
Bromomethane	ND	6.2	2.5	ug/Kg	1	07/26/19	JLI	SW8260C
Carbon Disulfide	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
Carbon tetrachloride	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
Chlorobenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Chloroethane	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Chloroform	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Chloromethane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Dibromochloromethane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
Dibromomethane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
Dichlorodifluoromethane	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Ethylbenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Hexachlorobutadiene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Isopropylbenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
m&p-Xylene	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	37	6.2	ug/Kg	1	07/26/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
Methylene chloride	ND	6.2	6.2	ug/Kg	1	07/26/19	JLI	SW8260C
Naphthalene	5900	3100	630	ug/Kg	500	07/26/19	JLI	SW8260C
n-Butylbenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
n-Propylbenzene	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
o-Xylene	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
p-Isopropyltoluene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
sec-Butylbenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Styrene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
tert-Butylbenzene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Tetrachloroethene	2500	1300	630	ug/Kg	500	07/26/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	3.1	ug/Kg	1	07/26/19	JLI	SW8260C
Toluene	0.91	J 6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	3.1	ug/Kg	1	07/26/19	JLI	SW8260C
Trichloroethene	520	470	310	ug/Kg	500	07/26/19	JLI	SW8260C
Trichlorofluoromethane	ND	6.2	1.2	ug/Kg	1	07/26/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
Vinyl chloride	ND	6.2	0.62	ug/Kg	1	07/26/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane	98			%	1	07/26/19	JLI	70 - 130 %
% Toluene-d8	97			%	1	07/26/19	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (500x)	100			%	500	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene (500x)	98			%	500	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane (500x)	95			%	500	07/26/19	JLI	70 - 130 %
% Toluene-d8 (500x)	97			%	500	07/26/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	92		ug/kg	1	07/26/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane	98			%	1	07/26/19	JLI	70 - 130 %
% Toluene-d8	97			%	1	07/26/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	25		ug/Kg	1	07/26/19	JLI	SW8260C
Acrolein	ND	6.2		ug/Kg	1	07/26/19	JLI	SW8260C
Acrylonitrile	ND	25		ug/Kg	1	07/26/19	JLI	SW8260C
Tert-butyl alcohol	ND	120		ug/Kg	1	07/26/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	07/26/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dimethylphenol	ND	250	90	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	07/26/19	WB	SW8270D
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
2-Chloronaphthalene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
2-Chlorophenol	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
2-Methylnaphthalene	230	J 250	110	ug/Kg	1	07/26/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	07/26/19	WB	SW8270D
2-Nitroaniline	ND	250	250	ug/Kg	1	07/26/19	WB	SW8270D
2-Nitrophenol	ND	250	230	ug/Kg	1	07/26/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	07/26/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	07/26/19	WB	SW8270D
3-Nitroaniline	ND	360	720	ug/Kg	1	07/26/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	220	72	ug/Kg	1	07/26/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	07/26/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
4-Nitroaniline	ND	360	120	ug/Kg	1	07/26/19	WB	SW8270D
4-Nitrophenol	ND	360	160	ug/Kg	1	07/26/19	WB	SW8270D
Acenaphthene	190	J 250	110	ug/Kg	1	07/26/19	WB	SW8270D
Acenaphthylene	220	J 250	100	ug/Kg	1	07/26/19	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Aniline	ND	290	290	ug/Kg	1	07/26/19	WB	SW8270D
Anthracene	500	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benz(a)anthracene	1200	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzidine	ND	360	210	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(a)pyrene	1200	180	120	ug/Kg	1	07/26/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzo(b)fluoranthene	1100	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(ghi)perylene	790	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(k)fluoranthene	1000	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzoic acid	ND	1800	720	ug/Kg	1	07/26/19	WB	SW8270D
Benzyl butyl phthalate	ND	250	94	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	98	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	920	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Carbazole	240	180	140	ug/Kg	1	07/26/19	WB	SW8270D
Chrysene	1200	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Dibenz(a,h)anthracene	260	180	120	ug/Kg	1	07/26/19	WB	SW8270D
Dibenzofuran	150	J 250	110	ug/Kg	1	07/26/19	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Di-n-butylphthalate	110	J 250	96	ug/Kg	1	07/26/19	WB	SW8270D
Di-n-octylphthalate	ND	250	94	ug/Kg	1	07/26/19	WB	SW8270D
Fluoranthene	2800	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Fluorene	210	J 250	120	ug/Kg	1	07/26/19	WB	SW8270D
Hexachlorobenzene	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	910	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Isophorone	ND	180	100	ug/Kg	1	07/26/19	WB	SW8270D
Naphthalene	220	J 250	100	ug/Kg	1	07/26/19	WB	SW8270D
Nitrobenzene	ND	180	130	ug/Kg	1	07/26/19	WB	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	07/26/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	07/26/19	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	07/26/19	WB	SW8270D
Phenanthrene	1800	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Phenol	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Pyrene	2600	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Pyridine	ND	250	89	ug/Kg	1	07/26/19	WB	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	77			%	1	07/26/19	WB	30 - 130 %
% 2-Fluorobiphenyl	64			%	1	07/26/19	WB	30 - 130 %
% 2-Fluorophenol	48			%	1	07/26/19	WB	30 - 130 %
% Nitrobenzene-d5	71			%	1	07/26/19	WB	30 - 130 %
% Phenol-d5	67			%	1	07/26/19	WB	30 - 130 %
% Terphenyl-d14	80			%	1	07/26/19	WB	30 - 130 %
Field Extraction	Completed					07/24/19		SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/24/19
07/25/19

Time

9:47
16:10

Laboratory Data

SDG ID: GCD65023
Phoenix ID: CD65026

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB 5 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Aluminum	5320	34		mg/Kg	10	07/29/19	EK	SW6010D
Arsenic	1.94	0.68		mg/Kg	1	07/29/19	EK	SW6010D
Barium	36.6	0.7		mg/Kg	1	07/29/19	EK	SW6010D
Beryllium	0.31	0.27		mg/Kg	1	07/29/19	EK	SW6010D
Calcium	1930	3.4		mg/Kg	1	07/29/19	EK	SW6010D
Cadmium	< 0.34	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Cobalt	5.32	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Chromium	14.4	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Copper	32.1	0.7		mg/kg	1	07/29/19	EK	SW6010D
Iron	12800	34		mg/Kg	10	08/01/19	TH	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	07/26/19	RS	SW7471B
Potassium	1340	7		mg/Kg	1	07/29/19	EK	SW6010D
Magnesium	2550	3.4		mg/Kg	1	07/29/19	EK	SW6010D
Manganese	149	3.4		mg/Kg	10	07/29/19	EK	SW6010D
Sodium	284	7		mg/Kg	1	07/29/19	EK	SW6010D
Nickel	11.6	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Lead	5.9	0.7		mg/Kg	1	07/29/19	EK	SW6010D
Antimony	< 3.4	3.4		mg/Kg	1	07/29/19	EK	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	07/29/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/29/19	EK	SW6010D
Vanadium	17.3	0.34		mg/Kg	1	07/29/19	EK	SW6010D
Zinc	36.1	0.7		mg/Kg	1	07/29/19	EK	SW6010D
Percent Solid	92			%		07/25/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/25/19	MM/E	SW3545A
Soil Extraction for Pesticides	Completed					07/25/19	MM/E	SW3545A
Soil Extraction for SVOA	Completed					07/25/19	NM/NT/EE	SW3545A
Mercury Digestion	Completed					07/26/19	I/I	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/25/19	B/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	72	72	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1221	ND	72	72	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1232	ND	72	72	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1242	ND	72	72	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1248	ND	72	72	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1254	ND	72	72	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1260	ND	72	72	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1262	ND	72	72	ug/Kg	2	07/29/19	SC	SW8082A
PCB-1268	ND	72	72	ug/Kg	2	07/29/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	66			%	2	07/29/19	SC	30 - 150 %
% DCBP (Confirmation)	69			%	2	07/29/19	SC	30 - 150 %
% TCMX	67			%	2	07/29/19	SC	30 - 150 %
% TCMX (Confirmation)	68			%	2	07/29/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.1		ug/Kg	2	07/28/19	AW	SW8081B
4,4' -DDE	ND	2.1		ug/Kg	2	07/28/19	AW	SW8081B
4,4' -DDT	ND	2.1		ug/Kg	2	07/28/19	AW	SW8081B
a-BHC	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
a-Chlordane	ND	3.6		ug/Kg	2	07/28/19	AW	SW8081B
Aldrin	ND	3.6		ug/Kg	2	07/28/19	AW	SW8081B
b-BHC	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
Chlordane	ND	36		ug/Kg	2	07/28/19	AW	SW8081B
d-BHC	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
Dieldrin	ND	3.6		ug/Kg	2	07/28/19	AW	SW8081B
Endosulfan I	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
Endosulfan II	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
Endosulfan sulfate	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
Endrin	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
Endrin aldehyde	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
Endrin ketone	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
g-BHC	ND	1.4		ug/Kg	2	07/28/19	AW	SW8081B
g-Chlordane	ND	3.6		ug/Kg	2	07/28/19	AW	SW8081B
Heptachlor	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
Heptachlor epoxide	ND	7.2		ug/Kg	2	07/28/19	AW	SW8081B
Methoxychlor	ND	36		ug/Kg	2	07/28/19	AW	SW8081B
Toxaphene	ND	140		ug/Kg	2	07/28/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	63			%	2	07/28/19	AW	30 - 150 %
% DCBP (Confirmation)	66			%	2	07/28/19	AW	30 - 150 %
% TCMX	55			%	2	07/28/19	AW	30 - 150 %
% TCMX (Confirmation)	59			%	2	07/28/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
1,1-Dichloroethane	ND	270	83	ug/Kg	50	07/26/19	JLI	SW8260C
1,1-Dichloroethene	ND	330	41	ug/Kg	50	07/26/19	JLI	SW8260C
1,1-Dichloropropene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
1,2-Dibromoethane	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
1,2-Dichloroethane	ND	41	41	ug/Kg	50	07/26/19	JLI	SW8260C
1,2-Dichloropropane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
1,3-Dichloropropane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
2,2-Dichloropropane	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
2-Chlorotoluene	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
2-Hexanone	ND	2100	410	ug/Kg	50	07/26/19	JLI	SW8260C
2-Isopropyltoluene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
4-Chlorotoluene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	2100	410	ug/Kg	50	07/26/19	JLI	SW8260C
Acetone	ND	410	410	ug/Kg	50	07/26/19	JLI	SW8260C
Acrylonitrile	ND	830	83	ug/Kg	50	07/26/19	JLI	SW8260C
Benzene	ND	60	41	ug/Kg	50	07/26/19	JLI	SW8260C
Bromobenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Bromochloromethane	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Bromodichloromethane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
Bromoform	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
Bromomethane	ND	410	170	ug/Kg	50	07/26/19	JLI	SW8260C
Carbon Disulfide	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
Carbon tetrachloride	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
Chlorobenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Chloroethane	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Chloroform	ND	370	41	ug/Kg	50	07/26/19	JLI	SW8260C
Chloromethane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	41	ug/Kg	50	07/26/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Dibromochloromethane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
Dibromomethane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
Dichlorodifluoromethane	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Ethylbenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Hexachlorobutadiene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Isopropylbenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
m&p-Xylene	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	170	170	ug/Kg	50	07/26/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	830	83	ug/Kg	50	07/26/19	JLI	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	170	170	ug/Kg	50	07/26/19	JLI	SW8260C
Naphthalene	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
n-Butylbenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
n-Propylbenzene	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
o-Xylene	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
p-Isopropyltoluene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
sec-Butylbenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Styrene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
tert-Butylbenzene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Tetrachloroethene	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	830	210	ug/Kg	50	07/26/19	JLI	SW8260C
Toluene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	190	41	ug/Kg	50	07/26/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	830	210	ug/Kg	50	07/26/19	JLI	SW8260C
Trichloroethene	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Trichlorofluoromethane	ND	410	83	ug/Kg	50	07/26/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	410	41	ug/Kg	50	07/26/19	JLI	SW8260C
Vinyl chloride	ND	41	41	ug/Kg	50	07/26/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4 (50x)	102			%	50	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98			%	50	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane (50x)	96			%	50	07/26/19	JLI	70 - 130 %
% Toluene-d8 (50x)	96			%	50	07/26/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	3300		ug/kg	50	07/26/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4 (50x)	102			%	50	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98			%	50	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane (50x)	96			%	50	07/26/19	JLI	70 - 130 %
% Toluene-d8 (50x)	96			%	50	07/26/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	1700		ug/Kg	50	07/26/19	JLI	SW8260C
Acrolein	ND	410		ug/Kg	50	07/26/19	JLI	SW8260C
Acrylonitrile	ND	1700		ug/Kg	50	07/26/19	JLI	SW8260C
Tert-butyl alcohol	ND	8300		ug/Kg	50	07/26/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	07/26/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dimethylphenol	ND	250	89	ug/Kg	1	07/26/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	07/26/19	WB	SW8270D
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	07/26/19	WB	SW8270D
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
2-Chloronaphthalene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
2-Chlorophenol	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
2-Methylnaphthalene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	07/26/19	WB	SW8270D
2-Nitroaniline	ND	250	250	ug/Kg	1	07/26/19	WB	SW8270D
2-Nitrophenol	ND	250	230	ug/Kg	1	07/26/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	07/26/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	07/26/19	WB	SW8270D
3-Nitroaniline	ND	360	720	ug/Kg	1	07/26/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	220	72	ug/Kg	1	07/26/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	07/26/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
4-Nitroaniline	ND	360	120	ug/Kg	1	07/26/19	WB	SW8270D
4-Nitrophenol	ND	360	160	ug/Kg	1	07/26/19	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Acenaphthylene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Aniline	ND	290	290	ug/Kg	1	07/26/19	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzidine	ND	360	210	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(a)pyrene	ND	180	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(ghi)perylene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Benzoic acid	ND	1800	720	ug/Kg	1	07/26/19	WB	SW8270D
Benzyl butyl phthalate	ND	250	93	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	99	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	97	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	07/26/19	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	07/26/19	WB	SW8270D
Dibenzofuran	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D
Di-n-butylphthalate	ND	250	96	ug/Kg	1	07/26/19	WB	SW8270D
Di-n-octylphthalate	ND	250	93	ug/Kg	1	07/26/19	WB	SW8270D
Fluoranthene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Hexachlorobenzene	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	07/26/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	180	110	ug/Kg	1	07/26/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Isophorone	ND	180	100	ug/Kg	1	07/26/19	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Nitrobenzene	ND	180	130	ug/Kg	1	07/26/19	WB	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	07/26/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	07/26/19	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	07/26/19	WB	SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	07/26/19	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	07/26/19	WB	SW8270D
Phenol	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	07/26/19	WB	SW8270D
Pyridine	ND	250	89	ug/Kg	1	07/26/19	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	80			%	1	07/26/19	WB	30 - 130 %
% 2-Fluorobiphenyl	57			%	1	07/26/19	WB	30 - 130 %
% 2-Fluorophenol	52			%	1	07/26/19	WB	30 - 130 %
% Nitrobenzene-d5	60			%	1	07/26/19	WB	30 - 130 %
% Phenol-d5	59			%	1	07/26/19	WB	30 - 130 %
% Terphenyl-d14	67			%	1	07/26/19	WB	30 - 130 %
Field Extraction	Completed					07/24/19		SW5035A

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1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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.

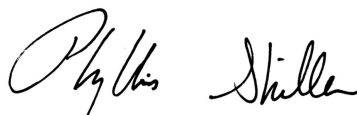
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:

Poor IS recoveries were observed for low level volatiles due to dirt in the threads of the vial preventing the sample from purging. Both low level vials had this problem, results are reported from the methanol high level.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/24/19
07/25/19

Time

9:47
16:10

Laboratory Data

SDG ID: GCD65023
Phoenix ID: CD65028

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
2-Chlorotoluene	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
2-Hexanone	ND	25	5.0	ug/Kg	1	07/26/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
4-Chlorotoluene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	5.0	ug/Kg	1	07/26/19	JLI	SW8260C

Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	5.7	JS 25	5.0	ug/Kg	1	07/26/19	JLI	SW8260C
Acrylonitrile	ND	10	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Benzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Bromobenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Bromochloromethane	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Bromodichloromethane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Bromoform	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Bromomethane	ND	5.0	2.0	ug/Kg	1	07/26/19	JLI	SW8260C
Carbon Disulfide	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Carbon tetrachloride	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Chlorobenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Chloroethane	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Chloroform	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Chloromethane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Dibromochloromethane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Dibromomethane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Ethylbenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Isopropylbenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
m&p-Xylene	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	5.0	ug/Kg	1	07/26/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Methylene chloride	ND	5.0	5.0	ug/Kg	1	07/26/19	JLI	SW8260C
Naphthalene	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
n-Butylbenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
n-Propylbenzene	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
o-Xylene	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
sec-Butylbenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Styrene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
tert-Butylbenzene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Tetrachloroethene	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Tetrahydrofuran (THF)	3.1	J 10	2.5	ug/Kg	1	07/26/19	JLI	SW8260C
Toluene	0.79	J 5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	07/26/19	JLI	SW8260C
Trichloroethene	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	1.0	ug/Kg	1	07/26/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
Vinyl chloride	ND	5.0	0.50	ug/Kg	1	07/26/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene	96			%	1	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane	96			%	1	07/26/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/26/19	JLI	70 - 130 %

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	75		ug/kg	1	07/26/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/26/19	JLI	70 - 130 %
% Bromofluorobenzene	96			%	1	07/26/19	JLI	70 - 130 %
% Dibromofluoromethane	96			%	1	07/26/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/26/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	20		ug/Kg	1	07/26/19	JLI	SW8260C
Acrolein	ND	5.0		ug/Kg	1	07/26/19	JLI	SW8260C
Acrylonitrile	ND	20		ug/Kg	1	07/26/19	JLI	SW8260C
Tert-butyl alcohol	ND	100		ug/Kg	1	07/26/19	JLI	SW8260C
Field Extraction	Completed					07/24/19		SW5035A

1

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

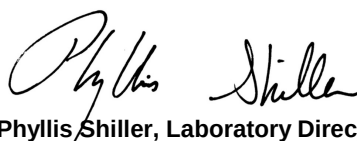
TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



QA/QC Report

August 08, 2019

QA/QC Data

SDG I.D.: GCD65023

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 489573 (mg/kg), QC Sample No: CD64990 2X (CD65023, CD65024, CD65025, CD65026)

Mercury - Soil	BRL	0.03	0.19	0.18	5.40	85.6	89.1	4.0	93.6	76.4	20.2	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 489550 (mg/kg), QC Sample No: CD64990 (CD65023, CD65024, CD65025, CD65026)

ICP Metals - Soil

Aluminum	BRL	4.8	8440	9380	10.5	114	112	1.8				75 - 125	30
Antimony	BRL	4.2	<3.4	<3.5	NC	97.0	96.0	1.0				75 - 125	30
Arsenic	BRL	0.64	7.52	8.04	6.70	106	106	0.0				75 - 125	30
Barium	BRL	25	104	129	21.5	102	102	0.0				75 - 125	30
Beryllium	BRL	0.26	0.54	0.43	NC	96.1	96.2	0.1				75 - 125	30
Cadmium	BRL	0.32	0.52	0.47	NC	97.7	99.7	2.0				75 - 125	30
Calcium	BRL	50	21500	20600	4.30	103	101	2.0				75 - 125	30
Chromium	BRL	0.32	16.7	18.0	7.50	103	102	1.0				75 - 125	30
Cobalt	BRL	0.32	5.81	6.14	5.50	100	99.4	0.6				75 - 125	30
Copper	BRL	0.64	55.9	54.3	2.90	102	101	1.0				75 - 125	30
Iron	BRL	4.8	12600	16000	23.8	105	104	1.0				75 - 125	30
Lead	BRL	0.32	132	140	5.90	96.4	97.9	1.5				75 - 125	30
Magnesium	BRL	10	4660	5320	13.2	108	108	0.0				75 - 125	30
Manganese	BRL	0.32	222	264	17.3	102	100	2.0				75 - 125	30
Nickel	BRL	0.32	14.7	16.3	10.3	99.3	98.0	1.3				75 - 125	30
Potassium	BRL	30	1320	1370	3.70	108	106	1.9				75 - 125	30
Selenium	BRL	1.3	<1.4	<1.4	NC	94.4	92.9	1.6				75 - 125	30
Silver	BRL	0.32	<0.34	<0.35	NC	102	101	1.0				75 - 125	30
Sodium	BRL	50	225	247	9.30	108	104	3.8				75 - 125	30
Thallium	BRL	2.9	<1.4	<3.2	NC	98.7	100	1.3				75 - 125	30
Vanadium	BRL	0.32	23.7	25.3	6.50	114	113	0.9				75 - 125	30
Zinc	BRL	10	97.9	111	12.5	100	97.2	2.8				75 - 125	30

Comment:

This batch consists of a Blank, LCS, LCSD, and Duplicate.



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QA/QC Report

August 08, 2019

QA/QC Data

SDG I.D.: GCD65023

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 489470 (ug/Kg), QC Sample No: CD64386 2X (CD65023, CD65025)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	81	88	8.3	63	56	11.8	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	79	87	9.6	62	55	12.0	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	84	%	84	93	10.2	65	59	9.7	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	88	%	92	99	7.3	69	63	9.1	30 - 150	30
% TCMX (Surrogate Rec)	88	%	90	100	10.5	71	63	11.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	90	%	96	105	9.0	74	66	11.4	30 - 150	30

QA/QC Batch 489530 (ug/Kg), QC Sample No: CD64990 2X (CD65024, CD65026)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	95	91	4.3	66	67	1.5	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	96	94	2.1	69	67	2.9	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	87	%	106	104	1.9	75	76	1.3	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	100	%	115	111	3.5	71	71	0.0	30 - 150	30
% TCMX (Surrogate Rec)	94	%	107	103	3.8	82	83	1.2	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	97	%	113	107	5.5	81	81	0.0	30 - 150	30

QA/QC Batch 489532 (ug/Kg), QC Sample No: CD64990 2X (CD65024, CD65026)

Pesticides - Soil

4,4' -DDD	ND	1.7	98	95	3.1				40 - 140	30
4,4' -DDE	ND	1.7	94	84	11.2				40 - 140	30
4,4' -DDT	ND	1.7	94	91	3.2				40 - 140	30
a-BHC	ND	1.0	93	88	5.5				40 - 140	30
a-Chlordane	ND	3.3	90	88	2.2				40 - 140	30
Aldrin	ND	1.0	94	88	6.6				40 - 140	30
b-BHC	ND	1.0	109	109	0.0				40 - 140	30
Chlordane	ND	33	95	93	2.1				40 - 140	30
d-BHC	ND	3.3	95	90	5.4				40 - 140	30
Dieldrin	ND	1.0	95	92	3.2				40 - 140	30

QA/QC Data

SDG I.D.: GCD65023

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endosulfan I	ND	3.3	93	97	4.2				40 - 140	30
Endosulfan II	ND	3.3	112	107	4.6				40 - 140	30
Endosulfan sulfate	ND	3.3	118	117	0.9				40 - 140	30
Endrin	ND	3.3	88	87	1.1				40 - 140	30
Endrin aldehyde	ND	3.3	104	103	1.0				40 - 140	30
Endrin ketone	ND	3.3	97	91	6.4				40 - 140	30
g-BHC	ND	1.0	102	98	4.0				40 - 140	30
g-Chlordane	ND	3.3	95	93	2.1				40 - 140	30
Heptachlor	ND	3.3	98	95	3.1				40 - 140	30
Heptachlor epoxide	ND	3.3	95	90	5.4				40 - 140	30
Methoxychlor	ND	3.3	100	95	5.1				40 - 140	30
Toxaphene	ND	130	NA	NA	NC				40 - 140	30
% DCBP	80	%	82	79	3.7				30 - 150	30
% DCBP (Confirmation)	74	%	76	72	5.4				30 - 150	30
% TCMX	76	%	76	74	2.7				30 - 150	30
% TCMX (Confirmation)	79	%	79	75	5.2				30 - 150	30

QA/QC Batch 489507 (ug/kg), QC Sample No: CD65024 (CD65023, CD65024, CD65025, CD65026)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	49	49	0.0	55	56	1.8	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	52	52	0.0	59	58	1.7	30 - 130	30	
1,2-Dichlorobenzene	ND	180	47	49	4.2	57	57	0.0	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	62	60	3.3	63	65	3.1	30 - 130	30	
1,3-Dichlorobenzene	ND	230	44	46	4.4	53	54	1.9	30 - 130	30	
1,4-Dichlorobenzene	ND	230	45	47	4.3	54	53	1.9	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	63	64	1.6	65	68	4.5	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	67	68	1.5	65	66	1.5	30 - 130	30	
2,4-Dichlorophenol	ND	130	63	64	1.6	67	67	0.0	30 - 130	30	
2,4-Dimethylphenol	ND	230	67	67	0.0	43	32	29.3	30 - 130	30	
2,4-Dinitrophenol	ND	230	61	58	5.0	16	<10	NC	30 - 130	30	m
2,4-Dinitrotoluene	ND	130	67	67	0.0	70	71	1.4	30 - 130	30	
2,6-Dinitrotoluene	ND	130	65	63	3.1	69	70	1.4	30 - 130	30	
2-Chloronaphthalene	ND	230	57	57	0.0	64	67	4.6	30 - 130	30	
2-Chlorophenol	ND	230	60	60	0.0	66	69	4.4	30 - 130	30	
2-Methylnaphthalene	ND	230	52	52	0.0	58	60	3.4	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	61	61	0.0	58	58	0.0	30 - 130	30	
2-Nitroaniline	ND	330	61	60	1.7	59	65	9.7	30 - 130	30	
2-Nitrophenol	ND	230	48	49	2.1	54	57	5.4	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	66	66	0.0	61	60	1.7	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	59	57	3.4	41	29	34.3	30 - 130	30	m,r
3-Nitroaniline	ND	330	68	69	1.5	76	79	3.9	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	67	66	1.5	42	28	40.0	30 - 130	30	m,r
4-Bromophenyl phenyl ether	ND	230	60	59	1.7	62	65	4.7	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	68	68	0.0	69	69	0.0	30 - 130	30	
4-Chloroaniline	ND	230	49	50	2.0	61	57	6.8	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	58	56	3.5	61	64	4.8	30 - 130	30	
4-Nitroaniline	ND	230	64	63	1.6	67	69	2.9	30 - 130	30	
4-Nitrophenol	ND	230	67	66	1.5	67	65	3.0	30 - 130	30	
Acenaphthene	ND	230	61	60	1.7	66	70	5.9	30 - 130	30	
Acenaphthylene	ND	130	58	57	1.7	63	67	6.2	30 - 130	30	
Acetophenone	ND	230	53	53	0.0	61	66	7.9	30 - 130	30	
Aniline	ND	330	43	42	2.4	49	41	17.8	30 - 130	30	
Anthracene	ND	230	66	66	0.0	70	72	2.8	30 - 130	30	

QA/QC Data

SDG I.D.: GCD65023

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benz(a)anthracene	ND	230	62	62	0.0	66	68	3.0	30 - 130	30
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	30 - 130	30
Benzo(a)pyrene	ND	130	59	60	1.7	63	66	4.7	30 - 130	30
Benzo(b)fluoranthene	ND	160	63	64	1.6	66	66	0.0	30 - 130	30
Benzo(ghi)perylene	ND	230	51	49	4.0	58	61	5.0	30 - 130	30
Benzo(k)fluoranthene	ND	230	64	64	0.0	67	72	7.2	30 - 130	30
Benzoic Acid	ND	330	35	29	18.8	<10	<10	NC	30 - 130	30
Benzyl butyl phthalate	ND	230	64	65	1.6	67	69	2.9	30 - 130	30
Bis(2-chloroethoxy)methane	ND	230	56	56	0.0	64	66	3.1	30 - 130	30
Bis(2-chloroethyl)ether	ND	130	46	42	9.1	54	56	3.6	30 - 130	30
Bis(2-chloroisopropyl)ether	ND	230	47	47	0.0	55	58	5.3	30 - 130	30
Bis(2-ethylhexyl)phthalate	ND	230	66	67	1.5	71	72	1.4	30 - 130	30
Carbazole	ND	230	62	63	1.6	67	68	1.5	30 - 130	30
Chrysene	ND	230	65	66	1.5	68	72	5.7	30 - 130	30
Dibenz(a,h)anthracene	ND	130	63	58	8.3	62	67	7.8	30 - 130	30
Dibenzofuran	ND	230	58	58	0.0	62	66	6.3	30 - 130	30
Diethyl phthalate	ND	230	62	59	5.0	63	66	4.7	30 - 130	30
Dimethylphthalate	ND	230	61	59	3.3	65	66	1.5	30 - 130	30
Di-n-butylphthalate	ND	670	64	64	0.0	67	69	2.9	30 - 130	30
Di-n-octylphthalate	ND	230	64	63	1.6	70	72	2.8	30 - 130	30
Fluoranthene	ND	230	60	61	1.7	64	66	3.1	30 - 130	30
Fluorene	ND	230	63	60	4.9	66	69	4.4	30 - 130	30
Hexachlorobenzene	ND	130	56	56	0.0	59	61	3.3	30 - 130	30
Hexachlorobutadiene	ND	230	44	45	2.2	51	50	2.0	30 - 130	30
Hexachlorocyclopentadiene	ND	230	40	34	16.2	41	41	0.0	30 - 130	30
Hexachloroethane	ND	130	43	44	2.3	53	52	1.9	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	59	56	5.2	61	63	3.2	30 - 130	30
Isophorone	ND	130	51	52	1.9	59	60	1.7	30 - 130	30
Naphthalene	ND	230	54	54	0.0	61	63	3.2	30 - 130	30
Nitrobenzene	ND	130	51	53	3.8	60	64	6.5	30 - 130	30
N-Nitrosodimethylamine	ND	230	50	50	0.0	57	56	1.8	30 - 130	30
N-Nitrosodi-n-propylamine	ND	130	55	56	1.8	65	69	6.0	30 - 130	30
N-Nitrosodiphenylamine	ND	130	63	62	1.6	59	56	5.2	30 - 130	30
Pentachloronitrobenzene	ND	230	53	53	0.0	55	58	5.3	30 - 130	30
Pentachlorophenol	ND	230	67	71	5.8	60	65	8.0	30 - 130	30
Phenanthrene	ND	130	65	65	0.0	68	71	4.3	30 - 130	30
Phenol	ND	230	65	63	3.1	71	81	13.2	30 - 130	30
Pyrene	ND	230	61	62	1.6	65	67	3.0	30 - 130	30
Pyridine	ND	230	30	32	6.5	40	41	2.5	30 - 130	30
% 2,4,6-Tribromophenol	44	%	59	59	0.0	54	46	16.0	30 - 130	30
% 2-Fluorobiphenyl	59	%	53	52	1.9	60	62	3.3	30 - 130	30
% 2-Fluorophenol	62	%	55	54	1.8	61	57	6.8	30 - 130	30
% Nitrobenzene-d5	56	%	48	48	0.0	57	60	5.1	30 - 130	30
% Phenol-d5	68	%	60	59	1.7	68	67	1.5	30 - 130	30
% Terphenyl-d14	63	%	54	55	1.8	58	59	1.7	30 - 130	30

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%)

QA/QC Batch 489668H (ug/kg), QC Sample No: CD64396 50X (CD65025 (500X) , CD65026 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	102	99	3.0	99	100	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	250	96	95	1.0	96	98	2.1	70 - 130	30

QA/QC Data

SDG I.D.: GCD65023

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,2,2-Tetrachloroethane	ND	150	98	96	2.1	95	99	4.1	70 - 130	30
1,1,2-Trichloroethane	ND	250	95	91	4.3	91	93	2.2	70 - 130	30
1,1-Dichloroethane	ND	250	104	102	1.9	100	100	0.0	70 - 130	30
1,1-Dichloroethene	ND	250	95	95	0.0	98	97	1.0	70 - 130	30
1,1-Dichloropropene	ND	250	96	94	2.1	97	97	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	109	111	1.8	110	110	0.0	70 - 130	30
1,2,3-Trichloropropane	ND	250	98	91	7.4	90	94	4.3	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	111	109	1.8	120	120	0.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	50	100	97	3.0	100	100	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	98	96	2.1	93	94	1.1	70 - 130	30
1,2-Dibromoethane	ND	250	98	95	3.1	93	96	3.2	70 - 130	30
1,2-Dichlorobenzene	ND	250	99	97	2.0	100	100	0.0	70 - 130	30
1,2-Dichloroethane	ND	250	97	94	3.1	94	95	1.1	70 - 130	30
1,2-Dichloropropane	ND	250	99	97	2.0	98	99	1.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	50	98	97	1.0	100	100	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	250	101	97	4.0	100	110	9.5	70 - 130	30
1,3-Dichloropropane	ND	250	100	97	3.0	94	98	4.2	70 - 130	30
1,4-Dichlorobenzene	ND	250	99	95	4.1	100	100	0.0	70 - 130	30
1,4-dioxane	ND	5000	98	97	1.0	100	99	1.0	70 - 130	30
2,2-Dichloropropane	ND	250	108	112	3.6	120	120	0.0	70 - 130	30
2-Chlorotoluene	ND	250	99	97	2.0	100	100	0.0	70 - 130	30
2-Hexanone	ND	1300	100	97	3.0	92	97	5.3	70 - 130	30
2-Isopropyltoluene	ND	250	105	103	1.9	110	110	0.0	70 - 130	30
4-Chlorotoluene	ND	250	97	95	2.1	100	100	0.0	70 - 130	30
4-Methyl-2-pentanone	ND	1300	108	103	4.7	99	100	1.0	70 - 130	30
Acetone	ND	500	49	45	8.5	45	46	2.2	70 - 130	30 I,m
Acrolein	ND	1300	68	63	7.6	61	60	1.7	70 - 130	30 I,m
Acrylonitrile	ND	250	105	103	1.9	99	100	1.0	70 - 130	30
Benzene	ND	50	96	93	3.2	97	97	0.0	70 - 130	30
Bromobenzene	ND	250	97	96	1.0	97	100	3.0	70 - 130	30
Bromochloromethane	ND	250	99	98	1.0	97	100	3.0	70 - 130	30
Bromodichloromethane	ND	250	98	94	4.2	95	98	3.1	70 - 130	30
Bromoform	ND	250	104	101	2.9	99	100	1.0	70 - 130	30
Bromomethane	ND	250	54	56	3.6	54	56	3.6	70 - 130	30 I,m
Carbon Disulfide	ND	250	95	96	1.0	100	99	1.0	70 - 130	30
Carbon tetrachloride	ND	250	84	97	14.4	85	85	0.0	70 - 130	30
Chlorobenzene	ND	250	98	96	2.1	97	99	2.0	70 - 130	30
Chloroethane	ND	250	29	28	3.5	28	27	3.6	70 - 130	30 I,m
Chloroform	ND	250	98	94	4.2	96	98	2.1	70 - 130	30
Chloromethane	ND	250	102	100	2.0	110	110	0.0	70 - 130	30
cis-1,2-Dichloroethene	ND	250	101	96	5.1	98	99	1.0	70 - 130	30
cis-1,3-Dichloropropene	ND	250	99	97	2.0	100	100	0.0	70 - 130	30
Dibromochloromethane	ND	150	103	100	3.0	100	100	0.0	70 - 130	30
Dibromomethane	ND	250	96	92	4.3	92	93	1.1	70 - 130	30
Dichlorodifluoromethane	ND	250	115	114	0.9	130	120	8.0	70 - 130	30
Ethylbenzene	ND	50	98	97	1.0	99	100	1.0	70 - 130	30
Hexachlorobutadiene	ND	250	117	112	4.4	120	120	0.0	70 - 130	30
Isopropylbenzene	ND	50	97	96	1.0	100	100	0.0	70 - 130	30
m&p-Xylene	ND	100	99	97	2.0	100	100	0.0	70 - 130	30
Methyl ethyl ketone	ND	250	103	98	5.0	93	98	5.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	50	96	92	4.3	91	94	3.2	70 - 130	30
Methylene chloride	ND	250	79	77	2.6	77	80	3.8	70 - 130	30
Naphthalene	ND	250	105	109	3.7	100	110	9.5	70 - 130	30

QA/QC Data

SDG I.D.: GCD65023

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
n-Butylbenzene	ND	50	104	100	3.9	110	110	0.0	70 - 130	30
n-Propylbenzene	ND	50	97	95	2.1	100	100	0.0	70 - 130	30
o-Xylene	ND	100	102	99	3.0	100	100	0.0	70 - 130	30
p-Isopropyltoluene	ND	50	101	99	2.0	110	110	0.0	70 - 130	30
sec-Butylbenzene	ND	50	105	103	1.9	110	110	0.0	70 - 130	30
Styrene	ND	250	102	99	3.0	100	100	0.0	70 - 130	30
tert-butyl alcohol	ND	5000	121	119	1.7	120	120	0.0	70 - 130	30
tert-Butylbenzene	ND	50	100	98	2.0	100	100	0.0	70 - 130	30
Tetrachloroethene	ND	250	96	95	1.0	98	100	2.0	70 - 130	30
Tetrahydrofuran (THF)	ND	250	105	101	3.9	97	100	3.0	70 - 130	30
Toluene	ND	50	97	94	3.1	97	98	1.0	70 - 130	30
trans-1,2-Dichloroethene	ND	250	97	93	4.2	98	100	2.0	70 - 130	30
trans-1,3-Dichloropropene	ND	250	101	97	4.0	99	100	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	102	100	2.0	100	110	9.5	70 - 130	30
Trichloroethene	ND	250	96	94	2.1	97	98	1.0	70 - 130	30
Trichlorofluoromethane	ND	250	26	25	3.9	27	26	3.8	70 - 130	30
Trichlorotrifluoroethane	ND	250	100	100	0.0	100	100	0.0	70 - 130	30
Vinyl chloride	ND	250	101	102	1.0	110	110	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	101	100	1.0	70 - 130	30
% Bromofluorobenzene	97	%	101	101	0.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	94	%	99	100	1.0	100	98	2.0	70 - 130	30
% Toluene-d8	96	%	98	98	0.0	98	98	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 489683 (ug/kg), QC Sample No: CD65345 (CD65023, CD65024, CD65025, CD65028)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	95	102	7.1				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	90	98	8.5				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	86	97	12.0				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	87	99	12.9				70 - 130	30
1,1-Dichloroethane	ND	5.0	92	102	10.3				70 - 130	30
1,1-Dichloroethene	ND	5.0	99	109	9.6				70 - 130	30
1,1-Dichloropropene	ND	5.0	92	97	5.3				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	84	95	12.3				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	80	93	15.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	81	92	12.7				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	85	95	11.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	83	99	17.6				70 - 130	30
1,2-Dibromoethane	ND	5.0	88	98	10.8				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	85	95	11.1				70 - 130	30
1,2-Dichloroethane	ND	5.0	92	102	10.3				70 - 130	30
1,2-Dichloropropane	ND	5.0	91	100	9.4				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	88	95	7.7				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	85	94	10.1				70 - 130	30
1,3-Dichloropropane	ND	5.0	88	100	12.8				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	83	93	11.4				70 - 130	30
1,4-dioxane	ND	100	90	102	12.5				70 - 130	30
2,2-Dichloropropane	ND	5.0	92	95	3.2				70 - 130	30
2-Chlorotoluene	ND	5.0	88	95	7.7				70 - 130	30
2-Hexanone	ND	25	82	101	20.8				70 - 130	30
2-Isopropyltoluene	ND	5.0	91	99	8.4				70 - 130	30

QA/QC Data

SDG I.D.: GCD65023

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4-Chlorotoluene	ND	5.0	84	94	11.2				70 - 130	30
4-Methyl-2-pentanone	ND	25	92	108	16.0				70 - 130	30
Acetone	ND	10	65	77	16.9				70 - 130	30
Acrolein	ND	25	84	100	17.4				70 - 130	30
Acrylonitrile	ND	5.0	83	100	18.6				70 - 130	30
Benzene	ND	1.0	90	97	7.5				70 - 130	30
Bromobenzene	ND	5.0	86	94	8.9				70 - 130	30
Bromochloromethane	ND	5.0	88	101	13.8				70 - 130	30
Bromodichloromethane	ND	5.0	89	99	10.6				70 - 130	30
Bromoform	ND	5.0	89	105	16.5				70 - 130	30
Bromomethane	ND	5.0	97	107	9.8				70 - 130	30
Carbon Disulfide	ND	5.0	98	109	10.6				70 - 130	30
Carbon tetrachloride	ND	5.0	90	100	10.5				70 - 130	30
Chlorobenzene	ND	5.0	88	98	10.8				70 - 130	30
Chloroethane	ND	5.0	92	101	9.3				70 - 130	30
Chloroform	ND	5.0	88	97	9.7				70 - 130	30
Chloromethane	ND	5.0	91	101	10.4				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	93	104	11.2				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	91	101	10.4				70 - 130	30
Dibromochloromethane	ND	3.0	93	103	10.2				70 - 130	30
Dibromomethane	ND	5.0	89	98	9.6				70 - 130	30
Dichlorodifluoromethane	ND	5.0	110	117	6.2				70 - 130	30
Ethylbenzene	ND	1.0	90	100	10.5				70 - 130	30
Hexachlorobutadiene	ND	5.0	92	98	6.3				70 - 130	30
Isopropylbenzene	ND	1.0	89	95	6.5				70 - 130	30
m&p-Xylene	ND	2.0	89	98	9.6				70 - 130	30
Methyl ethyl ketone	ND	5.0	79	101	24.4				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	86	101	16.0				70 - 130	30
Methylene chloride	ND	5.0	81	91	11.6				70 - 130	30
Naphthalene	ND	5.0	86	99	14.1				70 - 130	30
n-Butylbenzene	ND	1.0	85	91	6.8				70 - 130	30
n-Propylbenzene	ND	1.0	89	93	4.4				70 - 130	30
o-Xylene	ND	2.0	92	100	8.3				70 - 130	30
p-Isopropyltoluene	ND	1.0	88	94	6.6				70 - 130	30
sec-Butylbenzene	ND	1.0	93	99	6.3				70 - 130	30
Styrene	ND	5.0	89	98	9.6				70 - 130	30
tert-butyl alcohol	ND	100	79	94	17.3				70 - 130	30
tert-Butylbenzene	ND	1.0	90	96	6.5				70 - 130	30
Tetrachloroethene	ND	5.0	92	97	5.3				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	78	97	21.7				70 - 130	30
Toluene	ND	1.0	91	99	8.4				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	96	106	9.9				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	89	101	12.6				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	88	102	14.7				70 - 130	30
Trichloroethene	ND	5.0	93	102	9.2				70 - 130	30
Trichlorofluoromethane	ND	5.0	81	89	9.4				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	98	106	7.8				70 - 130	30
Vinyl chloride	ND	5.0	96	104	8.0				70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	102	100	2.0				70 - 130	30
% Bromofluorobenzene	97	%	103	102	1.0				70 - 130	30
% Dibromofluoromethane	100	%	100	98	2.0				70 - 130	30
% Toluene-d8	101	%	100	100	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCD65023

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD 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

August 08, 2019

Thursday, August 08, 2019

Criteria: NY: 375, 375GWP, 375RRS, 375RS

State: NY

Sample Criteria Exceedances Report

GCD65023 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD65023	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1800	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	5100	260	1700	1700	ug/Kg
CD65023	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2400	260	1700	1700	ug/Kg
CD65023	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	4800	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	2500	260	500	500	ug/Kg
CD65023	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1800	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	3200	180	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	820	180	330	330	ug/Kg
CD65023	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	5100	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	4800	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2400	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2500	260	500	500	ug/Kg
CD65023	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	820	180	330	330	ug/Kg
CD65023	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	4800	260	3900	3900	ug/Kg
CD65023	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	5100	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3200	180	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1800	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5100	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4800	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3200	180	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	820	180	330	330	ug/Kg
CD65023	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1800	260	1000	1000	ug/Kg
CD65023	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	260	500	500	ug/Kg
CD65023	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	260	800	800	ug/Kg
CD65023	\$8270SMRDP	Dibenzofuran	NY / 375-6.8 Volatiles / Unrestricted Use Soil	880	260	330	330	ug/Kg
CD65023	AS-SM	Arsenic	NY / 375-6.8 Metals / Ground Water Protection	19.6	0.70	16	16	mg/Kg
CD65023	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	19.6	0.70	16	16	mg/Kg
CD65023	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	19.6	0.70	16	16	mg/Kg
CD65023	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	19.6	0.70	13	13	mg/Kg
CD65023	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential	662	0.7	350	350	mg/Kg
CD65023	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential Restricted	662	0.7	400	400	mg/Kg
CD65023	BA-SMDP	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	662	0.7	350	350	mg/Kg
CD65023	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	6.56	0.35	2.5	2.5	mg/Kg
CD65023	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential Restricted	6.56	0.35	4.3	4.3	mg/Kg
CD65023	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	6.56	0.35	2.5	2.5	mg/Kg
CD65023	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	43.7	0.35	30		mg/Kg
CD65023	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	166	7.0	50	50	mg/kg
CD65023	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	2.51	0.15	0.73	0.73	mg/Kg
CD65023	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	2.51	0.15	0.81	0.81	mg/Kg
CD65023	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	2.51	0.15	0.81	0.81	mg/Kg
CD65023	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	2.51	0.15	0.18	0.18	mg/Kg
CD65023	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	55.7	0.35	30	30	mg/Kg

Thursday, August 08, 2019

Criteria: NY: 375, 375GWP, 375RRS, 375RS

State: NY

Sample Criteria Exceedances Report

GCD65023 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD65023	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	666	7.0	450	450	mg/Kg
CD65023	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	666	7.0	400	400	mg/Kg
CD65023	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	666	7.0	400	400	mg/Kg
CD65023	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	666	7.0	63	63	mg/Kg
CD65023	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	1300	7.0	109	109	mg/Kg
CD65025	\$8260MADPR	Tetrachloroethene	NY / 375-6.8 Volatiles / Ground Water Protection	2500	1300	1300	1300	ug/Kg
CD65025	\$8260MADPR	Trichloroethene	NY / 375-6.8 Volatiles / Ground Water Protection	520	470	470	470	ug/Kg
CD65025	\$8260MADPR	Tetrachloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	2500	1300	1300	1300	ug/Kg
CD65025	\$8260MADPR	Trichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	520	470	470	470	ug/Kg
CD65025	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1200	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1200	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1200	180	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1200	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	910	250	500	500	ug/Kg
CD65025	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1200	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	910	250	500	500	ug/Kg
CD65025	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	180	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1000	250	800	800	ug/Kg
CD65025	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	910	250	500	500	ug/Kg
CD65025	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	250	1000	1000	ug/Kg
CD65025	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	180	1000	1000	ug/Kg
CD65025	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	15.3	0.68	13	13	mg/Kg
CD65025	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	150	6.8	50	50	mg/kg
CD65025	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	15.0	0.72	0.73	0.73	mg/Kg
CD65025	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	15.0	0.72	0.81	0.81	mg/Kg
CD65025	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	15.0	0.72	0.81	0.81	mg/Kg
CD65025	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	15.0	0.72	0.18	0.18	mg/Kg
CD65025	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	739	6.8	450	450	mg/Kg
CD65025	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	739	6.8	400	400	mg/Kg
CD65025	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	739	6.8	400	400	mg/Kg
CD65025	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	739	6.8	63	63	mg/Kg
CD65025	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	367	6.8	109	109	mg/Kg
CD65026	\$8260MADPR	Vinyl chloride	NY / 375-6.8 Volatiles / Ground Water Protection	ND	41	20	20	ug/Kg
CD65026	\$8260MADPR	Methylene chloride	NY / 375-6.8 Volatiles / Ground Water Protection	ND	170	50	50	ug/Kg
CD65026	\$8260MADPR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Ground Water Protection	ND	170	120	120	ug/Kg

Thursday, August 08, 2019

Criteria: NY: 375, 375GWP, 375RRS, 375RS

State: NY

Sample Criteria Exceedances Report

GCD65023 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD65026	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	ND	410	50	50	ug/Kg
CD65026	\$8260MADPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Ground Water Protection	ND	41	20	20	ug/Kg
CD65026	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	410	50	50	ug/Kg
CD65026	\$8260MADPR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	170	120	120	ug/Kg
CD65026	\$8260MADPR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	170	50	50	ug/Kg
CD65026	\$8260MADPR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	41	20	20	ug/Kg
CD65026	\$8260MADPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	41	20	20	ug/Kg
CD65026	\$DIOX_SMR	1,4-dioxane	NY / 375-6.8 Volatiles / Ground Water Protection	ND	3300	100	100	ug/kg
CD65026	\$DIOX_SMR	1,4-dioxane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3300	100	100	ug/kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance 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



Analysis Comments

August 08, 2019

SDG I.D.: GCD65023

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

SVOA Narration

CHEM05 07/26/19-1: CD65023, CD65025, CD65026

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.050 (0.1), Hexachlorobenzene 0.090 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: 3,3'-Dichlorobenzidine 32%L (30%), Hexachlorocyclopentadiene 31%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.055 (0.1), Hexachlorobenzene 0.089 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM29 07/26/19-1: CD65024

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.097 (0.1), Hexachlorobenzene 0.098 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: 2-Nitroaniline 35%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.082 (0.1), Hexachlorobenzene 0.083 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

VOA Narration

CHEM03 07/26/19-1: CD65025, CD65026

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 24% (20%), Methylene chloride 28% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Tetrachloroethene 0.175 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 33%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM31 07/25/19-2: CD65023, CD65024, CD65025, CD65028



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Analysis Comments

August 08, 2019

SDG I.D.: GCD65023

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 28% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: Acrolein 0.035 (0.05), Bromoform 0.099 (0.1),
Tetrachloroethene 0.178 (0.2)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 35%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: Acrolein 0.030 (0.05)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



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NY Temperature Narration

August 08, 2019

SDG I.D.: GCD65023

The samples in this delivery group were received at 3.6°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Bobbi Aloisa

From: Bobbi Aloisa
Sent: Friday, July 26, 2019 3:51 PM
To: creilly@ebcincny.com
Cc: Bobbi Aloisa
Subject: Problem with chain
Attachments: GCD65023-ChainofCustody-1.pdf

Hi Chawnie-

On the attached chain, we can't report the high level trip blank, there wasn't any methanol in the vial.

I apologize for any inconvenience

Bobbi

Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728

-----Original Message-----

From: Bobbi Aloisa
Sent: Friday, July 26, 2019 3:37 PM
To: Sarah Bell
Subject: who do I email at EBC on something on this coc?

Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728



Thursday, August 08, 2019

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

Project ID: 33 FRANKLIN ST BROOKLYN
SDG ID: GCD65017
Sample ID#s: CD65017 - CD65022

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. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
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
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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SDG Comments

August 08, 2019

SDG I.D.: GCD65017

8260 Volatile Organics:

1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/FID method 504 or 8011 to achieve this criteria.

SIM Analysis:

The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

8081 Pesticides:

Toxaphene is reported to the lowest possible reporting level. The NY TOGS criteria for this compound can not be achieved.



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Sample Id Cross Reference

August 08, 2019

SDG I.D.: GCD65017

Project ID: 33 FRANKLIN ST BROOKLYN

Client Id	Lab Id	Matrix
MW 1	CD65017	GROUND WATER
MW 2	CD65018	GROUND WATER
MW 3	CD65019	GROUND WATER
MW 4	CD65020	GROUND WATER
GW DUPLICATE	CD65021	GROUND WATER
GW TRIP BLANK	CD65022	GROUND WATER



Environmental Laboratories, Inc.
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Analysis Report

August 08, 2019

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: TB
Received by: SW
Analyzed by: see "By" below

Date

07/24/19
07/25/19

Time

13:30
16:10

Laboratory Data

SDG ID: GCD65017
Phoenix ID: CD65017

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Aluminum	4.25	0.020		mg/L	1	07/31/19	TH	SW6010D
Arsenic - LDL	< 0.004	0.004		mg/L	1	07/31/19	TH	SW6010D
Barium	0.184	0.010		mg/L	1	07/31/19	TH	SW6010D
Beryllium	< 0.001	0.001		mg/L	1	07/31/19	TH	SW6010D
Calcium	99.6	0.010		mg/L	1	07/31/19	TH	SW6010D
Cadmium	< 0.004	0.004		mg/L	1	07/31/19	TH	SW6010D
Cobalt	0.009	0.005		mg/L	1	07/31/19	TH	SW6010D
Chromium	0.011	0.001		mg/L	1	07/31/19	TH	SW6010D
Copper	0.022	0.005		mg/L	1	07/31/19	TH	SW6010D
Silver (Dissolved)	< 0.005	0.005		mg/L	1	08/01/19	TH	SW6010D
Aluminum (Dissolved)	0.044	0.011		mg/L	1	08/01/19	TH	SW6010D
Arsenic, (Dissolved)	< 0.003	0.003		mg/L	1	08/01/19	TH	SW6010D
Barium (Dissolved)	0.131	0.011		mg/L	1	08/01/19	TH	SW6010D
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	08/01/19	TH	SW6010D
Calcium (Dissolved)	96.7	0.01		mg/L	1	08/01/19	TH	SW6010D
Cadmium (Dissolved)	< 0.004	0.004		mg/L	1	08/01/19	TH	SW6010D
Cobalt, (Dissolved)	< 0.005	0.005		mg/L	1	08/01/19	TH	SW6010D
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	08/01/19	TH	SW6010D
Copper, (Dissolved)	< 0.005	0.005		mg/L	1	08/01/19	TH	SW6010D
Iron, (Dissolved)	0.02	0.01		mg/L	1	08/01/19	TH	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium (Dissolved)	13.1	0.1		mg/L	1	08/01/19	TH	SW6010D
Magnesium (Dissolved)	11.9	0.01		mg/L	1	08/01/19	TH	SW6010D
Manganese, (Dissolved)	1.01	0.005		mg/L	1	08/01/19	TH	SW6010D
Sodium (Dissolved)	326	1.1		mg/L	10	08/06/19	TH	SW6010D
Nickel, (Dissolved)	< 0.004	0.004		mg/L	1	08/01/19	TH	SW6010D
Lead (Dissolved)	< 0.002	0.002		mg/L	1	08/01/19	TH	SW6010D

B*

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	< 0.0016	0.0016		mg/L	5	07/30/19	CPP	SW6020B
Selenium (Dissolved)-LDL	< 0.01	0.01		mg/L	5	07/30/19	CPP	SW6020B
Thallium (Dissolved)	< 0.0003	0.0003		mg/L	1	07/26/19	CPP	SW6020B
Vanadium, (Dissolved)	< 0.011	0.011		mg/L	1	08/01/19	TH	SW6010D
Zinc, (Dissolved)	< 0.011	0.011		mg/L	1	08/01/19	TH	SW6010D
Iron	15.5	1.0		mg/L	100	08/05/19	TH	SW6010D
Mercury	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium	15.8	0.1		mg/L	1	07/31/19	TH	SW6010D
Magnesium	17.4	0.010		mg/L	1	07/31/19	TH	SW6010D
Manganese	1.53	0.005		mg/L	1	07/31/19	TH	SW6010D
Sodium	358	10		mg/L	100	08/05/19	TH	SW6010D
Nickel	0.011	0.004		mg/L	1	07/31/19	TH	SW6010D
Lead	0.014	0.002		mg/L	1	07/31/19	TH	SW6010D
Antimony	< 0.0030	0.0030		mg/L	5	07/26/19	CPP	SW6020B
Selenium	< 0.010	0.010		mg/L	5	07/26/19	CPP	SW6020B
Thallium	< 0.0005	0.0005		mg/L	5	07/26/19	CPP	SW6020B
Vanadium	0.015	0.010		mg/L	1	07/31/19	TH	SW6010D
Zinc	0.029	0.010		mg/L	1	07/31/19	TH	SW6010D
Filtration	Completed					07/25/19	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
PCB Extraction (2 Liter)	Completed					07/25/19		SW3510C
Extraction for Pest (2 Liter)	Completed					07/25/19		SW3510C
Semi-Volatile Extraction	Completed					07/25/19	P/AK/D	SW3520C
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Total Metals Digestion	Completed					07/25/19	AG	
Total Metals Digestion MS	Completed					07/25/19	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1221	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1232	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1242	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1248	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1254	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1260	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1262	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1268	ND	0.047		ug/L	1	07/29/19	SC	SW8082A

QA/QC Surrogates

% DCBP	63			%	1	07/29/19	SC	30 - 150 %
% DCBP (Confirmation)	66			%	1	07/29/19	SC	30 - 150 %
% TCMX	83			%	1	07/29/19	SC	30 - 150 %
% TCMX (Confirmation)	93			%	1	07/29/19	SC	30 - 150 %

Pesticides

4,4' -DDD	ND	0.009		ug/L	5	07/29/19	AW	SW8081B
4,4' -DDE	ND	0.009		ug/L	5	07/29/19	AW	SW8081B
4,4' -DDT	ND	0.009		ug/L	5	07/29/19	AW	SW8081B
a-BHC	ND	0.009		ug/L	5	07/29/19	AW	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
a-chlordane	ND	0.24		ug/L	25	07/30/19	AW	SW8081B
Alachlor	ND	0.35		ug/L	5	07/29/19	AW	SW8081B
Aldrin	ND	0.007		ug/L	5	07/29/19	AW	SW8081B
b-BHC	0.038	0.024		ug/L	5	07/29/19	AW	SW8081B
Chlordane	6.4	2.4		ug/L	25	07/30/19	AW	SW8081B
d-BHC	ND	0.024		ug/L	5	07/29/19	AW	SW8081B
Dieldrin	ND	0.009		ug/L	5	07/29/19	AW	SW8081B
Endosulfan I	ND	0.047		ug/L	5	07/29/19	AW	SW8081B
Endosulfan II	ND	0.047		ug/L	5	07/29/19	AW	SW8081B
Endosulfan Sulfate	ND	0.047		ug/L	5	07/29/19	AW	SW8081B
Endrin	ND	0.024		ug/L	5	07/29/19	AW	SW8081B
Endrin Aldehyde	ND	0.047		ug/L	5	07/29/19	AW	SW8081B
Endrin ketone	ND	0.047		ug/L	5	07/29/19	AW	SW8081B
g-BHC (Lindane)	ND	0.024		ug/L	5	07/29/19	AW	SW8081B
g-chlordane	ND	0.24		ug/L	25	07/30/19	AW	SW8081B
Heptachlor	ND	0.024		ug/L	5	07/29/19	AW	SW8081B
Heptachlor epoxide	0.32	0.047		ug/L	5	07/29/19	AW	SW8081B
Methoxychlor	ND	0.47		ug/L	5	07/29/19	AW	SW8081B
Toxaphene	ND	0.94		ug/L	5	07/29/19	AW	SW8081B

QA/QC Surrogates

%DCBP (Surrogate Rec)	Diluted Out			%	5	07/29/19	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	Diluted Out			%	5	07/29/19	AW	30 - 150 %
%TCMX (Surrogate Rec)	Diluted Out			%	5	07/29/19	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	Diluted Out			%	5	07/29/19	AW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	07/25/19	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Methyl t-butyl ether (MTBE)	24	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	07/25/19	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	07/25/19	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Toluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	95			%	1	07/25/19	MH	70 - 130 %

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98			%	1	07/25/19	MH	70 - 130 %
% Dibromofluoromethane	96			%	1	07/25/19	MH	70 - 130 %
% Toluene-d8	96			%	1	07/25/19	MH	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/25/19	MH	SW8260C

1,4-dioxane

1,4-dioxane	ND	0.35		ug/l	1	07/29/19	KCA	SW8270DSIM

1

QA/QC Surrogates

% 1,4-dioxane-d8	83			%	1	07/29/19	KCA	30 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	3.5	3.5	ug/L	1	07/30/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	07/30/19	KCA	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
2-Chloronaphthalene	ND	5.0	1.4	ug/L	1	07/30/19	KCA	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2-Methylnaphthalene	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2-Nitroaniline	ND	5.0	2.0	ug/L	1	07/30/19	KCA	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	07/30/19	KCA	SW8270D
3-Nitroaniline	ND	5.0	2.0	ug/L	1	07/30/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
4-Chloroaniline	ND	3.5	2.3	ug/L	1	07/30/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	1	07/30/19	KCA	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	07/30/19	KCA	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Acenaphthene	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
Acetophenone	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
Aniline	ND	3.5	3.5	ug/L	1	07/30/19	KCA	SW8270D
Anthracene	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
Benzidine	ND	4.5	2.9	ug/L	1	07/30/19	KCA	SW8270D

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzoic acid	ND	25	10	ug/L	1	07/30/19	KCA	SW8270D
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Carbazole	ND	5.0	3.8	ug/L	1	07/30/19	KCA	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
Diethyl phthalate	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
Dimethylphthalate	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
Di-n-butylphthalate	ND	5.0	1.3	ug/L	1	07/30/19	KCA	SW8270D
Di-n-octylphthalate	ND	5.0	1.3	ug/L	1	07/30/19	KCA	SW8270D
Fluoranthene	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
Fluorene	ND	5.0	1.7	ug/L	1	07/30/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
Hexachloroethane	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Isophorone	ND	5.0	1.4	ug/L	1	07/30/19	KCA	SW8270D
Naphthalene	ND	5.0	1.4	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	1	07/30/19	KCA	SW8270D
Pentachloronitrobenzene	ND	2.5	2.5	ug/L	1	07/30/19	KCA	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Pyrene	ND	5.0	1.7	ug/L	1	07/30/19	KCA	SW8270D
Pyridine	ND	10	1.2	ug/L	1	07/30/19	KCA	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	85			%	1	07/30/19	KCA	15 - 110 %
% 2-Fluorobiphenyl	70			%	1	07/30/19	KCA	30 - 130 %
% 2-Fluorophenol	56			%	1	07/30/19	KCA	15 - 110 %
% Nitrobenzene-d5	60			%	1	07/30/19	KCA	30 - 130 %
% Phenol-d5	49			%	1	07/30/19	KCA	15 - 110 %
% Terphenyl-d14	60			%	1	07/30/19	KCA	30 - 130 %
<u>Semivolatiles</u>								
Acenaphthylene	ND	0.53	0.53	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benz(a)anthracene	0.08	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(a)pyrene	0.07	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(b)fluoranthene	0.07	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.53	0.53	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(k)fluoranthene	0.05	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Chrysene	0.09	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.53	0.53	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	07/29/19	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.06	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Nitrobenzene	ND	0.40	0.40	ug/L	1	07/29/19	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.11	0.11	ug/L	1	07/29/19	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.53	0.53	ug/L	1	07/29/19	WB	SW8270D (SIM)
Phenanthrene	ND	0.53	0.53	ug/L	1	07/29/19	WB	SW8270D (SIM)
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	82			%	1	07/29/19	WB	15 - 110 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	65			%	1	07/29/19	WB	30 - 130 %
% 2-Fluorophenol	55			%	1	07/29/19	WB	15 - 110 %
% Nitrobenzene-d5	70			%	1	07/29/19	WB	30 - 130 %
% Phenol-d5	61			%	1	07/29/19	WB	15 - 110 %
% Terphenyl-d14	61			%	1	07/29/19	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					07/26/19	S/S	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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.

Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

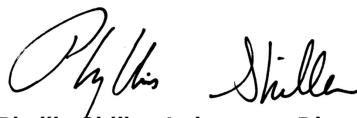
Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Pesticide Comment:

Due to the presence of large quantities of target pesticides in the sample, a dilution was required that caused an elevated RL. Not all requested criteria was achieved.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

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

August 08, 2019

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: TB
Received by: SW
Analyzed by: see "By" below

Date

07/24/19
07/25/19

Time

11:10
16:10

Laboratory Data

SDG ID: GCD65017
Phoenix ID: CD65018

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: MW 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Aluminum	1.54	0.020		mg/L	1	07/31/19	TH	SW6010D
Arsenic - LDL	< 0.004	0.004		mg/L	1	07/31/19	TH	SW6010D
Barium	0.089	0.010		mg/L	1	07/31/19	TH	SW6010D
Beryllium	< 0.001	0.001		mg/L	1	07/31/19	TH	SW6010D
Calcium	65.6	0.010		mg/L	1	07/31/19	TH	SW6010D
Cadmium	< 0.004	0.004		mg/L	1	07/31/19	TH	SW6010D
Cobalt	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Chromium	0.004	0.001		mg/L	1	07/31/19	TH	SW6010D
Copper	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Silver (Dissolved)	< 0.005	0.005		mg/L	1	08/01/19	TH	SW6010D
Aluminum (Dissolved)	0.037	0.011		mg/L	1	08/01/19	TH	SW6010D
Arsenic, (Dissolved)	< 0.003	0.003		mg/L	1	08/01/19	TH	SW6010D
Barium (Dissolved)	0.070	0.011		mg/L	1	08/01/19	TH	SW6010D
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	08/01/19	TH	SW6010D
Calcium (Dissolved)	71.5	0.01		mg/L	1	08/01/19	TH	SW6010D
Cadmium (Dissolved)	< 0.004	0.004		mg/L	1	08/01/19	TH	SW6010D
Cobalt, (Dissolved)	< 0.005	0.005		mg/L	1	08/01/19	TH	SW6010D
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	08/01/19	TH	SW6010D
Copper, (Dissolved)	< 0.005	0.005		mg/L	1	08/01/19	TH	SW6010D
Iron, (Dissolved)	< 0.01	0.01		mg/L	1	08/01/19	TH	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium (Dissolved)	24.0	0.1		mg/L	1	08/01/19	TH	SW6010D
Magnesium (Dissolved)	14.2	0.01		mg/L	1	08/01/19	TH	SW6010D
Manganese, (Dissolved)	0.253	0.005		mg/L	1	08/01/19	TH	SW6010D
Sodium (Dissolved)	95.3	1.1		mg/L	10	08/06/19	TH	SW6010D
Nickel, (Dissolved)	< 0.004	0.004		mg/L	1	08/01/19	TH	SW6010D
Lead (Dissolved)	< 0.002	0.002		mg/L	1	08/01/19	TH	SW6010D

B*

Client ID: MW 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	< 0.0016	0.0016		mg/L	5	07/30/19	CPP	SW6020B
Selenium (Dissolved)-LDL	< 0.01	0.01		mg/L	5	07/30/19	CPP	SW6020B
Thallium (Dissolved)	< 0.0003	0.0003		mg/L	1	07/26/19	CPP	SW6020B
Vanadium, (Dissolved)	< 0.011	0.011		mg/L	1	08/01/19	TH	SW6010D
Zinc, (Dissolved)	< 0.011	0.011		mg/L	1	08/01/19	TH	SW6010D
Iron	3.45	0.10		mg/L	10	08/05/19	TH	SW6010D
Mercury	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium	28.1	0.1		mg/L	1	07/31/19	TH	SW6010D
Magnesium	13.1	0.010		mg/L	1	07/31/19	TH	SW6010D
Manganese	0.278	0.005		mg/L	1	07/31/19	TH	SW6010D
Sodium	86.5	1.0		mg/L	10	08/05/19	TH	SW6010D
Nickel	0.005	0.004		mg/L	1	07/31/19	TH	SW6010D
Lead	0.018	0.002		mg/L	1	07/31/19	TH	SW6010D
Antimony	< 0.0030	0.0030		mg/L	5	07/26/19	CPP	SW6020B
Selenium	< 0.010	0.010		mg/L	5	07/26/19	CPP	SW6020B
Thallium	< 0.0005	0.0005		mg/L	5	07/26/19	CPP	SW6020B
Vanadium	< 0.010	0.010		mg/L	1	07/31/19	TH	SW6010D
Zinc	0.014	0.010		mg/L	1	07/31/19	TH	SW6010D
Filtration	Completed					07/25/19	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
PCB Extraction (2 Liter)	Completed					07/25/19		SW3510C
Extraction for Pest (2 Liter)	Completed					07/25/19		SW3510C
Semi-Volatile Extraction	Completed					07/25/19	PI/AK/D	SW3520C
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Total Metals Digestion	Completed					07/25/19	AG	
Total Metals Digestion MS	Completed					07/25/19	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.051		ug/L	1	07/29/19	SC	SW8082A
PCB-1221	ND	0.051		ug/L	1	07/29/19	SC	SW8082A
PCB-1232	ND	0.051		ug/L	1	07/29/19	SC	SW8082A
PCB-1242	ND	0.051		ug/L	1	07/29/19	SC	SW8082A
PCB-1248	ND	0.051		ug/L	1	07/29/19	SC	SW8082A
PCB-1254	ND	0.051		ug/L	1	07/29/19	SC	SW8082A
PCB-1260	ND	0.051		ug/L	1	07/29/19	SC	SW8082A
PCB-1262	ND	0.051		ug/L	1	07/29/19	SC	SW8082A
PCB-1268	ND	0.051		ug/L	1	07/29/19	SC	SW8082A

QA/QC Surrogates

% DCBP	59			%	1	07/29/19	SC	30 - 150 %
% DCBP (Confirmation)	64			%	1	07/29/19	SC	30 - 150 %
% TCMX	76			%	1	07/29/19	SC	30 - 150 %
% TCMX (Confirmation)	75			%	1	07/29/19	SC	30 - 150 %

Pesticides

4,4' -DDD	ND	0.002		ug/L	1	07/29/19	AW	SW8081B
4,4' -DDE	0.044	0.010		ug/L	1	07/29/19	AW	SW8081B
4,4' -DDT	0.24	0.051		ug/L	5	07/27/19	AW	SW8081B
a-BHC	ND	0.005		ug/L	1	07/29/19	AW	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
a-chlordane	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Alachlor	ND	0.076		ug/L	1	07/29/19	AW	SW8081B
Aldrin	ND	0.002		ug/L	1	07/29/19	AW	SW8081B
b-BHC	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Chlordane	ND	0.020		ug/L	1	07/29/19	AW	SW8081B
d-BHC	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Dieldrin	ND	0.002		ug/L	1	07/29/19	AW	SW8081B
Endosulfan I	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Endosulfan II	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Endosulfan Sulfate	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Endrin	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Endrin Aldehyde	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Endrin ketone	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
g-BHC (Lindane)	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
g-chlordane	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Heptachlor	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Heptachlor epoxide	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Methoxychlor	ND	0.10		ug/L	1	07/29/19	AW	SW8081B
Toxaphene	ND	0.20		ug/L	1	07/29/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
%DCBP (Surrogate Rec)	91			%	1	07/29/19	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	63			%	1	07/29/19	AW	30 - 150 %
%TCMX (Surrogate Rec)	72			%	1	07/29/19	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	59			%	1	07/29/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	07/25/19	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	07/25/19	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	07/25/19	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Toluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	94			%	1	07/25/19	MH	70 - 130 %

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98			%	1	07/25/19	MH	70 - 130 %
% Dibromofluoromethane	93			%	1	07/25/19	MH	70 - 130 %
% Toluene-d8	93			%	1	07/25/19	MH	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/25/19	MH	SW8260C

1,4-dioxane

1,4-dioxane	ND	0.35		ug/l	1	07/29/19	KCA	SW8270DSIM

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QA/QC Surrogates

% 1,4-dioxane-d8	91			%	1	07/29/19	KCA	30 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	3.6	3.6	ug/L	1	07/30/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	5.2	1.6	ug/L	1	07/30/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	5.2	1.7	ug/L	1	07/30/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	07/30/19	KCA	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
2-Chloronaphthalene	ND	5.2	1.5	ug/L	1	07/30/19	KCA	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2-Methylnaphthalene	ND	5.2	1.5	ug/L	1	07/30/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2-Nitroaniline	ND	5.0	2.1	ug/L	1	07/30/19	KCA	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	07/30/19	KCA	SW8270D
3-Nitroaniline	ND	5.0	2.1	ug/L	1	07/30/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	5.2	1.5	ug/L	1	07/30/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
4-Chloroaniline	ND	3.6	2.4	ug/L	1	07/30/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	5.2	1.7	ug/L	1	07/30/19	KCA	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	07/30/19	KCA	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Acenaphthene	ND	5.2	1.6	ug/L	1	07/30/19	KCA	SW8270D
Acetophenone	ND	5.2	1.6	ug/L	1	07/30/19	KCA	SW8270D
Aniline	ND	3.6	3.6	ug/L	1	07/30/19	KCA	SW8270D
Anthracene	ND	5.2	1.7	ug/L	1	07/30/19	KCA	SW8270D
Benzidine	ND	4.6	3.0	ug/L	1	07/30/19	KCA	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzoic acid	ND	26	10	ug/L	1	07/30/19	KCA	SW8270D
Benzyl butyl phthalate	ND	5.2	1.3	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.2	1.4	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Carbazole	ND	5.2	3.9	ug/L	1	07/30/19	KCA	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
Diethyl phthalate	ND	5.2	1.6	ug/L	1	07/30/19	KCA	SW8270D
Dimethylphthalate	ND	5.2	1.6	ug/L	1	07/30/19	KCA	SW8270D
Di-n-butylphthalate	ND	5.2	1.4	ug/L	1	07/30/19	KCA	SW8270D
Di-n-octylphthalate	ND	5.2	1.3	ug/L	1	07/30/19	KCA	SW8270D
Fluoranthene	ND	5.2	1.7	ug/L	1	07/30/19	KCA	SW8270D
Fluorene	ND	5.2	1.7	ug/L	1	07/30/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
Hexachloroethane	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Isophorone	ND	5.2	1.4	ug/L	1	07/30/19	KCA	SW8270D
Naphthalene	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	5.2	1.7	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	5.2	2.0	ug/L	1	07/30/19	KCA	SW8270D
Pentachloronitrobenzene	ND	2.6	2.6	ug/L	1	07/30/19	KCA	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Pyrene	ND	5.2	1.8	ug/L	1	07/30/19	KCA	SW8270D
Pyridine	ND	10	1.3	ug/L	1	07/30/19	KCA	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	100			%	1	07/30/19	KCA	15 - 110 %
% 2-Fluorobiphenyl	72			%	1	07/30/19	KCA	30 - 130 %
% 2-Fluorophenol	61			%	1	07/30/19	KCA	15 - 110 %
% Nitrobenzene-d5	70			%	1	07/30/19	KCA	30 - 130 %
% Phenol-d5	57			%	1	07/30/19	KCA	15 - 110 %
% Terphenyl-d14	59			%	1	07/30/19	KCA	30 - 130 %
<u>Semivolatiles</u>								
Acenaphthylene	ND	0.52	0.52	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benz(a)anthracene	0.08	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(a)pyrene	0.08	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(b)fluoranthene	0.07	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.52	0.52	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(k)fluoranthene	0.06	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Chrysene	0.09	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.52	0.52	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	07/29/19	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.07	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Nitrobenzene	ND	0.40	0.40	ug/L	1	07/29/19	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	07/29/19	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.52	0.52	ug/L	1	07/29/19	WB	SW8270D (SIM)
Phenanthrene	ND	0.52	0.52	ug/L	1	07/29/19	WB	SW8270D (SIM)
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	84			%	1	07/29/19	WB	15 - 110 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	66			%	1	07/29/19	WB	30 - 130 %
% 2-Fluorophenol	61			%	1	07/29/19	WB	15 - 110 %
% Nitrobenzene-d5	70			%	1	07/29/19	WB	30 - 130 %
% Phenol-d5	61			%	1	07/29/19	WB	15 - 110 %
% Terphenyl-d14	57			%	1	07/29/19	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					07/26/19	S/S	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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.

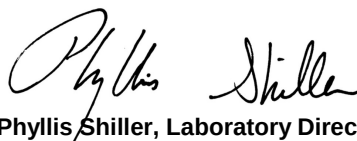
Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

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

August 08, 2019

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: TB
Received by: SW
Analyzed by: see "By" below

Date

07/24/19
07/25/19

Time

12:45
16:10

Laboratory Data

SDG ID: GCD65017
Phoenix ID: CD65019

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: MW 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Aluminum	23.8	0.020		mg/L	1	07/31/19	TH	SW6010D
Arsenic - LDL	0.007	0.004		mg/L	1	07/31/19	TH	SW6010D
Barium	0.283	0.010		mg/L	1	07/31/19	TH	SW6010D
Beryllium	0.001	0.001		mg/L	1	07/31/19	TH	SW6010D
Calcium	132	0.010		mg/L	1	07/31/19	TH	SW6010D
Cadmium	< 0.004	0.004		mg/L	1	07/31/19	TH	SW6010D
Cobalt	0.015	0.005		mg/L	1	07/31/19	TH	SW6010D
Chromium	0.036	0.001		mg/L	1	07/31/19	TH	SW6010D
Copper	0.023	0.005		mg/L	1	07/31/19	TH	SW6010D
Silver (Dissolved)	< 0.005	0.005		mg/L	1	08/03/19	CPP	SW6010D
Aluminum (Dissolved)	0.048	0.011		mg/L	1	08/03/19	CPP	SW6010D
Arsenic, (Dissolved)	< 0.003	0.003		mg/L	1	08/03/19	CPP	SW6010D
Barium (Dissolved)	0.059	0.011		mg/L	1	08/03/19	CPP	SW6010D
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	08/03/19	CPP	SW6010D
Calcium (Dissolved)	116	0.01		mg/L	1	08/03/19	CPP	SW6010D
Cadmium (Dissolved)	< 0.004	0.004		mg/L	1	08/03/19	CPP	SW6010D
Cobalt, (Dissolved)	< 0.005	0.005		mg/L	1	08/03/19	CPP	SW6010D
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	08/03/19	CPP	SW6010D
Copper, (Dissolved)	< 0.005	0.005		mg/L	1	08/03/19	CPP	SW6010D
Iron, (Dissolved)	0.04	0.01		mg/L	1	08/03/19	CPP	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium (Dissolved)	20.6	0.1		mg/L	1	08/06/19	TH	SW6010D
Magnesium (Dissolved)	13.1	0.01		mg/L	1	08/03/19	CPP	SW6010D
Manganese, (Dissolved)	0.998	0.005		mg/L	1	08/03/19	CPP	SW6010D
Sodium (Dissolved)	154	1.1		mg/L	10	08/06/19	TH	SW6010D
Nickel, (Dissolved)	< 0.004	0.004		mg/L	1	08/03/19	CPP	SW6010D
Lead (Dissolved)	< 0.002	0.002		mg/L	1	08/06/19	TH	SW6010D

B

Client ID: MW 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	< 0.0016	0.0016		mg/L	5	07/30/19	CPP	SW6020B
Selenium (Dissolved)-LDL	< 0.01	0.01		mg/L	5	07/30/19	CPP	SW6020B
Thallium (Dissolved)	< 0.0003	0.0003		mg/L	1	07/26/19	CPP	SW6020B
Vanadium, (Dissolved)	< 0.011	0.011		mg/L	1	08/03/19	CPP	SW6010D
Zinc, (Dissolved)	< 0.011	0.011		mg/L	1	08/03/19	CPP	SW6010D
Iron	43.9	0.10		mg/L	10	08/05/19	TH	SW6010D
Mercury	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium	24.6	0.1		mg/L	1	07/31/19	TH	SW6010D
Magnesium	19.7	0.010		mg/L	1	07/31/19	TH	SW6010D
Manganese	1.72	0.005		mg/L	1	07/31/19	TH	SW6010D
Sodium	169	1.0		mg/L	10	08/05/19	TH	SW6010D
Nickel	0.027	0.004		mg/L	1	07/31/19	TH	SW6010D
Lead	0.021	0.002		mg/L	1	07/31/19	TH	SW6010D
Antimony	< 0.0030	0.0030		mg/L	5	07/26/19	CPP	SW6020B
Selenium	< 0.010	0.010		mg/L	5	07/26/19	CPP	SW6020B
Thallium	< 0.0005	0.0005		mg/L	5	07/26/19	CPP	SW6020B
Vanadium	0.039	0.010		mg/L	1	07/31/19	TH	SW6010D
Zinc	0.088	0.010		mg/L	1	07/31/19	TH	SW6010D
Filtration	Completed					07/25/19	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
PCB Extraction (2 Liter)	Completed					07/25/19	E	SW3510C
Extraction for Pest (2 Liter)	Completed					07/25/19		SW3510C
Semi-Volatile Extraction	Completed					07/25/19	PI/AK/D	SW3520C
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Total Metals Digestion	Completed					07/25/19	AG	
Total Metals Digestion MS	Completed					07/25/19	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.051		ug/L	1	07/27/19	SC	SW8082A
PCB-1221	ND	0.051		ug/L	1	07/27/19	SC	SW8082A
PCB-1232	ND	0.051		ug/L	1	07/27/19	SC	SW8082A
PCB-1242	ND	0.051		ug/L	1	07/27/19	SC	SW8082A
PCB-1248	ND	0.051		ug/L	1	07/27/19	SC	SW8082A
PCB-1254	ND	0.051		ug/L	1	07/27/19	SC	SW8082A
PCB-1260	ND	0.051		ug/L	1	07/27/19	SC	SW8082A
PCB-1262	ND	0.051		ug/L	1	07/27/19	SC	SW8082A
PCB-1268	ND	0.051		ug/L	1	07/27/19	SC	SW8082A

QA/QC Surrogates

% DCBP	37			%	1	07/27/19	SC	30 - 150 %
% DCBP (Confirmation)	37			%	1	07/27/19	SC	30 - 150 %
% TCMX	73			%	1	07/27/19	SC	30 - 150 %
% TCMX (Confirmation)	71			%	1	07/27/19	SC	30 - 150 %

Pesticides

4,4' -DDD	ND	0.002		ug/L	1	07/27/19	AW	SW8081B
4,4' -DDE	ND	0.002		ug/L	1	07/27/19	AW	SW8081B
4,4' -DDT	ND	0.002		ug/L	1	07/27/19	AW	SW8081B
a-BHC	ND	0.005		ug/L	1	07/27/19	AW	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
a-chlordane	ND	0.010		ug/L	1	07/27/19	AW	SW8081B
Alachlor	ND	0.076		ug/L	1	07/27/19	AW	SW8081B
Aldrin	ND	0.002		ug/L	1	07/27/19	AW	SW8081B
b-BHC	ND	0.005		ug/L	1	07/27/19	AW	SW8081B
Chlordane	ND	0.020		ug/L	1	07/27/19	AW	SW8081B
d-BHC	ND	0.005		ug/L	1	07/27/19	AW	SW8081B
Dieldrin	ND	0.002		ug/L	1	07/27/19	AW	SW8081B
Endosulfan I	ND	0.010		ug/L	1	07/27/19	AW	SW8081B
Endosulfan II	ND	0.010		ug/L	1	07/27/19	AW	SW8081B
Endosulfan Sulfate	ND	0.010		ug/L	1	07/27/19	AW	SW8081B
Endrin	ND	0.005		ug/L	1	07/27/19	AW	SW8081B
Endrin Aldehyde	ND	0.010		ug/L	1	07/27/19	AW	SW8081B
Endrin ketone	ND	0.010		ug/L	1	07/27/19	AW	SW8081B
g-BHC (Lindane)	ND	0.050		ug/L	1	07/27/19	AW	SW8081B
g-chlordane	ND	0.010		ug/L	1	07/27/19	AW	SW8081B
Heptachlor	ND	0.005		ug/L	1	07/27/19	AW	SW8081B
Heptachlor epoxide	ND	0.005		ug/L	1	07/27/19	AW	SW8081B
Methoxychlor	ND	0.10		ug/L	1	07/27/19	AW	SW8081B
Toxaphene	ND	0.20		ug/L	1	07/27/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
%DCBP (Surrogate Rec)	76			%	1	07/27/19	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	36			%	1	07/27/19	AW	30 - 150 %
%TCMX (Surrogate Rec)	109			%	1	07/27/19	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	64			%	1	07/27/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C

Client ID: MW 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon Disulfide	0.28	J 1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	07/25/19	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	07/25/19	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	07/25/19	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Toluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	94			%	1	07/25/19	MH	70 - 130 %

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	96			%	1	07/25/19	MH	70 - 130 %
% Dibromofluoromethane	90			%	1	07/25/19	MH	70 - 130 %
% Toluene-d8	94			%	1	07/25/19	MH	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/25/19	MH	SW8260C

1,4-dioxane

1,4-dioxane	0.41	0.35		ug/l	1	07/29/19	KCA	SW8270DSIM

1

QA/QC Surrogates

% 1,4-dioxane-d8	86			%	1	07/29/19	KCA	30 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	3.5	3.9	ug/L	1	07/30/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	5	1.7	ug/L	1	07/30/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	5	1.8	ug/L	1	07/30/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dichlorophenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dimethylphenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrophenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	5	2.2	ug/L	1	07/30/19	KCA	SW8270D
2,6-Dinitrotoluene	ND	5	1.8	ug/L	1	07/30/19	KCA	SW8270D
2-Chloronaphthalene	ND	5	1.6	ug/L	1	07/30/19	KCA	SW8270D
2-Chlorophenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
2-Methylnaphthalene	ND	5	1.7	ug/L	1	07/30/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
2-Nitroaniline	ND	5.0	2.2	ug/L	1	07/30/19	KCA	SW8270D
2-Nitrophenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.6	ug/L	1	07/30/19	KCA	SW8270D
3-Nitroaniline	ND	5.0	2.2	ug/L	1	07/30/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	5	1.6	ug/L	1	07/30/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
4-Chloroaniline	ND	3.5	2.6	ug/L	1	07/30/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	5	1.9	ug/L	1	07/30/19	KCA	SW8270D
4-Nitroaniline	ND	5.0	1.9	ug/L	1	07/30/19	KCA	SW8270D
4-Nitrophenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
Acenaphthene	ND	5	1.7	ug/L	1	07/30/19	KCA	SW8270D
Acetophenone	ND	5	1.7	ug/L	1	07/30/19	KCA	SW8270D
Aniline	ND	3.5	3.9	ug/L	1	07/30/19	KCA	SW8270D
Anthracene	ND	5	1.8	ug/L	1	07/30/19	KCA	SW8270D
Benzidine	ND	4.5	3.3	ug/L	1	07/30/19	KCA	SW8270D

Client ID: MW 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzoic acid	ND	25	11	ug/L	1	07/30/19	KCA	SW8270D
Benzyl butyl phthalate	ND	5	1.4	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	5	1.5	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	5	1.5	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
Carbazole	ND	5	4.2	ug/L	1	07/30/19	KCA	SW8270D
Dibenzofuran	ND	5	1.6	ug/L	1	07/30/19	KCA	SW8270D
Diethyl phthalate	ND	5	1.8	ug/L	1	07/30/19	KCA	SW8270D
Dimethylphthalate	ND	5	1.7	ug/L	1	07/30/19	KCA	SW8270D
Di-n-butylphthalate	ND	5	1.5	ug/L	1	07/30/19	KCA	SW8270D
Di-n-octylphthalate	ND	5	1.4	ug/L	1	07/30/19	KCA	SW8270D
Fluoranthene	ND	5	1.8	ug/L	1	07/30/19	KCA	SW8270D
Fluorene	ND	5	1.8	ug/L	1	07/30/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	5	1.7	ug/L	1	07/30/19	KCA	SW8270D
Hexachloroethane	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
Isophorone	ND	5	1.6	ug/L	1	07/30/19	KCA	SW8270D
Naphthalene	ND	5	1.6	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	5	1.8	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	5	2.1	ug/L	1	07/30/19	KCA	SW8270D
Pentachloronitrobenzene	ND	2.5	2.8	ug/L	1	07/30/19	KCA	SW8270D
Phenol	ND	1.0	1.1	ug/L	1	07/30/19	KCA	SW8270D
Pyrene	ND	5	1.9	ug/L	1	07/30/19	KCA	SW8270D
Pyridine	ND	10	1.4	ug/L	1	07/30/19	KCA	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	94			%	1	07/30/19	KCA	15 - 110 %
% 2-Fluorobiphenyl	68			%	1	07/30/19	KCA	30 - 130 %
% 2-Fluorophenol	49			%	1	07/30/19	KCA	15 - 110 %
% Nitrobenzene-d5	65			%	1	07/30/19	KCA	30 - 130 %
% Phenol-d5	50			%	1	07/30/19	KCA	15 - 110 %
% Terphenyl-d14	54			%	1	07/30/19	KCA	30 - 130 %
<u>Semivolatiles</u>								
Acenaphthylene	ND	0.56	0.56	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.56	0.56	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.56	0.56	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	07/29/19	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Nitrobenzene	ND	0.40	0.40	ug/L	1	07/29/19	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.11	0.11	ug/L	1	07/29/19	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.56	0.56	ug/L	1	07/29/19	WB	SW8270D (SIM)
Phenanthrene	ND	0.56	0.56	ug/L	1	07/29/19	WB	SW8270D (SIM)
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	95			%	1	07/29/19	WB	15 - 110 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	66			%	1	07/29/19	WB	30 - 130 %
% 2-Fluorophenol	56			%	1	07/29/19	WB	15 - 110 %
% Nitrobenzene-d5	83			%	1	07/29/19	WB	30 - 130 %
% Phenol-d5	69			%	1	07/29/19	WB	15 - 110 %
% Terphenyl-d14	56			%	1	07/29/19	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					07/26/19	S/S	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
 BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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.

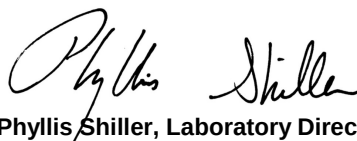
Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

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

August 08, 2019

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: TB
Received by: SW
Analyzed by: see "By" below

Date

07/24/19
07/25/19

Time

12:00
16:10

Laboratory Data

SDG ID: GCD65017
Phoenix ID: CD65020

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: MW 4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Aluminum	4.32	0.020		mg/L	1	07/31/19	TH	SW6010D
Arsenic - LDL	< 0.004	0.004		mg/L	1	07/31/19	TH	SW6010D
Barium	0.194	0.010		mg/L	1	07/31/19	TH	SW6010D
Beryllium	< 0.001	0.001		mg/L	1	07/31/19	TH	SW6010D
Calcium	145	0.010		mg/L	1	07/31/19	TH	SW6010D
Cadmium	< 0.004	0.004		mg/L	1	07/31/19	TH	SW6010D
Cobalt	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Chromium	0.006	0.001		mg/L	1	07/31/19	TH	SW6010D
Copper	0.006	0.005		mg/L	1	07/31/19	TH	SW6010D
Silver (Dissolved)	< 0.005	0.005		mg/L	1	08/01/19	TH	SW6010D
Aluminum (Dissolved)	0.050	0.011		mg/L	1	08/01/19	TH	SW6010D
Arsenic, (Dissolved)	< 0.003	0.003		mg/L	1	08/01/19	TH	SW6010D
Barium (Dissolved)	0.102	0.011		mg/L	1	08/01/19	TH	SW6010D
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	08/01/19	TH	SW6010D
Calcium (Dissolved)	153	0.01		mg/L	1	08/01/19	TH	SW6010D
Cadmium (Dissolved)	< 0.004	0.004		mg/L	1	08/01/19	TH	SW6010D
Cobalt, (Dissolved)	< 0.005	0.005		mg/L	1	08/01/19	TH	SW6010D
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	08/01/19	TH	SW6010D
Copper, (Dissolved)	< 0.005	0.005		mg/L	1	08/01/19	TH	SW6010D
Iron, (Dissolved)	2.93	0.01		mg/L	1	08/01/19	TH	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium (Dissolved)	23.2	0.1		mg/L	1	08/01/19	TH	SW6010D
Magnesium (Dissolved)	31.6	0.01		mg/L	1	08/01/19	TH	SW6010D
Manganese, (Dissolved)	3.18	0.053		mg/L	10	08/03/19	CPP	SW6010D
Sodium (Dissolved)	222	1.1		mg/L	10	08/06/19	TH	SW6010D
Nickel, (Dissolved)	< 0.004	0.004		mg/L	1	08/01/19	TH	SW6010D
Lead (Dissolved)	< 0.002	0.002		mg/L	1	08/01/19	TH	SW6010D

B*

Client ID: MW 4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	< 0.0016	0.0016		mg/L	5	07/30/19	CPP	SW6020B
Selenium (Dissolved)-LDL	< 0.01	0.01		mg/L	5	07/30/19	CPP	SW6020B
Thallium (Dissolved)	< 0.0003	0.0003		mg/L	1	07/26/19	CPP	SW6020B
Vanadium, (Dissolved)	< 0.011	0.011		mg/L	1	08/01/19	TH	SW6010D
Zinc, (Dissolved)	< 0.011	0.011		mg/L	1	08/01/19	TH	SW6010D
Iron	29.8	0.10		mg/L	10	08/05/19	TH	SW6010D
Mercury	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium	25.8	0.1		mg/L	1	07/31/19	TH	SW6010D
Magnesium	35.6	0.010		mg/L	1	07/31/19	TH	SW6010D
Manganese	3.37	0.050		mg/L	10	08/05/19	TH	SW6010D
Sodium	221	1.0		mg/L	10	08/05/19	TH	SW6010D
Nickel	0.007	0.004		mg/L	1	07/31/19	TH	SW6010D
Lead	0.004	0.002		mg/L	1	07/31/19	TH	SW6010D
Antimony	< 0.0030	0.0030		mg/L	5	07/26/19	CPP	SW6020B
Selenium	< 0.010	0.010		mg/L	5	07/30/19	CPP	SW6020B
Thallium	< 0.0005	0.0005		mg/L	5	07/26/19	CPP	SW6020B
Vanadium	< 0.010	0.010		mg/L	1	07/31/19	TH	SW6010D
Zinc	0.023	0.010		mg/L	1	07/31/19	TH	SW6010D
Filtration	Completed					07/25/19	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
PCB Extraction (2 Liter)	Completed					07/25/19	E	SW3510C
Extraction for Pest (2 Liter)	Completed					07/25/19		SW3510C
Semi-Volatile Extraction	Completed					07/25/19	P/AK/D	SW3520C
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Total Metals Digestion	Completed					07/25/19	AG	
Total Metals Digestion MS	Completed					07/25/19	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1221	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1232	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1242	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1248	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1254	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1260	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1262	ND	0.047		ug/L	1	07/29/19	SC	SW8082A
PCB-1268	ND	0.047		ug/L	1	07/29/19	SC	SW8082A

QA/QC Surrogates

% DCBP	40			%	1	07/29/19	SC	30 - 150 %
% DCBP (Confirmation)	43			%	1	07/29/19	SC	30 - 150 %
% TCMX	78			%	1	07/29/19	SC	30 - 150 %
% TCMX (Confirmation)	75			%	1	07/29/19	SC	30 - 150 %

Pesticides

4,4' -DDD	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
4,4' -DDE	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
4,4' -DDT	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
a-BHC	ND	0.005		ug/L	1	07/27/19	AW	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
a-chlordane	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
Alachlor	ND	0.071		ug/L	1	07/27/19	AW	SW8081B
Aldrin	ND	0.001		ug/L	1	07/27/19	AW	SW8081B
b-BHC	ND	0.005		ug/L	1	07/27/19	AW	SW8081B
Chlordane	ND	0.019		ug/L	1	07/27/19	AW	SW8081B
d-BHC	ND	0.005		ug/L	1	07/27/19	AW	SW8081B
Dieldrin	ND	0.001		ug/L	1	07/27/19	AW	SW8081B
Endosulfan I	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
Endosulfan II	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
Endosulfan Sulfate	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
Endrin	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
Endrin Aldehyde	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
Endrin ketone	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
g-BHC (Lindane)	ND	0.050		ug/L	1	07/27/19	AW	SW8081B
g-chlordane	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
Heptachlor	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
Heptachlor epoxide	ND	0.009		ug/L	1	07/27/19	AW	SW8081B
Methoxychlor	ND	0.094		ug/L	1	07/27/19	AW	SW8081B
Toxaphene	ND	0.19		ug/L	1	07/27/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
%DCBP (Surrogate Rec)	46			%	1	07/27/19	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	35			%	1	07/27/19	AW	30 - 150 %
%TCMX (Surrogate Rec)	68			%	1	07/27/19	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	60			%	1	07/27/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	07/25/19	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	07/25/19	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	07/25/19	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Toluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	93			%	1	07/25/19	MH	70 - 130 %

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98			%	1	07/25/19	MH	70 - 130 %
% Dibromofluoromethane	95			%	1	07/25/19	MH	70 - 130 %
% Toluene-d8	94			%	1	07/25/19	MH	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/25/19	MH	SW8260C

1,4-dioxane

1,4-dioxane	ND	0.35		ug/l	1	07/29/19	KCA	SW8270DSIM

1

QA/QC Surrogates

% 1,4-dioxane-d8	82			%	1	07/29/19	KCA	30 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	3.4	3.4	ug/L	1	07/30/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.8	1.4	ug/L	1	07/30/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.8	1.6	ug/L	1	07/30/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dichlorophenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dimethylphenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrophenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.8	1.9	ug/L	1	07/30/19	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.8	1.5	ug/L	1	07/30/19	KCA	SW8270D
2-Chloronaphthalene	ND	4.8	1.4	ug/L	1	07/30/19	KCA	SW8270D
2-Chlorophenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
2-Methylnaphthalene	ND	4.8	1.4	ug/L	1	07/30/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
2-Nitroaniline	ND	4.8	1.9	ug/L	1	07/30/19	KCA	SW8270D
2-Nitrophenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	2.3	ug/L	1	07/30/19	KCA	SW8270D
3-Nitroaniline	ND	4.8	1.9	ug/L	1	07/30/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	1.4	ug/L	1	07/30/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
4-Chloroaniline	ND	3.4	2.2	ug/L	1	07/30/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	4.8	1.6	ug/L	1	07/30/19	KCA	SW8270D
4-Nitroaniline	ND	4.8	1.6	ug/L	1	07/30/19	KCA	SW8270D
4-Nitrophenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
Acenaphthene	ND	4.8	1.5	ug/L	1	07/30/19	KCA	SW8270D
Acetophenone	ND	4.8	1.5	ug/L	1	07/30/19	KCA	SW8270D
Aniline	ND	3.4	3.4	ug/L	1	07/30/19	KCA	SW8270D
Anthracene	ND	4.8	1.6	ug/L	1	07/30/19	KCA	SW8270D
Benzidine	ND	4.3	2.8	ug/L	1	07/30/19	KCA	SW8270D

Client ID: MW 4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzoic acid	ND	24	9.6	ug/L	1	07/30/19	KCA	SW8270D
Benzyl butyl phthalate	ND	4.8	1.2	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	1.3	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.8	1.3	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
Carbazole	ND	4.8	3.6	ug/L	1	07/30/19	KCA	SW8270D
Dibenzofuran	ND	4.8	1.4	ug/L	1	07/30/19	KCA	SW8270D
Diethyl phthalate	ND	4.8	1.5	ug/L	1	07/30/19	KCA	SW8270D
Dimethylphthalate	ND	4.8	1.5	ug/L	1	07/30/19	KCA	SW8270D
Di-n-butylphthalate	ND	4.8	1.3	ug/L	1	07/30/19	KCA	SW8270D
Di-n-octylphthalate	ND	4.8	1.2	ug/L	1	07/30/19	KCA	SW8270D
Fluoranthene	ND	4.8	1.6	ug/L	1	07/30/19	KCA	SW8270D
Fluorene	ND	4.8	1.6	ug/L	1	07/30/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	4.8	1.5	ug/L	1	07/30/19	KCA	SW8270D
Hexachloroethane	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
Isophorone	ND	4.8	1.3	ug/L	1	07/30/19	KCA	SW8270D
Naphthalene	ND	4.8	1.4	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.8	1.6	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.8	1.8	ug/L	1	07/30/19	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	07/30/19	KCA	SW8270D
Phenol	ND	0.96	0.96	ug/L	1	07/30/19	KCA	SW8270D
Pyrene	ND	4.8	1.7	ug/L	1	07/30/19	KCA	SW8270D
Pyridine	ND	9.6	1.2	ug/L	1	07/30/19	KCA	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	91			%	1	07/30/19	KCA	15 - 110 %
% 2-Fluorobiphenyl	64			%	1	07/30/19	KCA	30 - 130 %
% 2-Fluorophenol	52			%	1	07/30/19	KCA	15 - 110 %
% Nitrobenzene-d5	55			%	1	07/30/19	KCA	30 - 130 %
% Phenol-d5	50			%	1	07/30/19	KCA	15 - 110 %
% Terphenyl-d14	68			%	1	07/30/19	KCA	30 - 130 %
<u>Semivolatiles</u>								
Acenaphthylene	ND	0.48	0.48	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	0.48	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.48	0.48	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	0.48	ug/L	1	07/29/19	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	07/29/19	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	07/29/19	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.48	0.48	ug/L	1	07/29/19	WB	SW8270D (SIM)
Phenanthrene	ND	0.48	0.48	ug/L	1	07/29/19	WB	SW8270D (SIM)
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	95			%	1	07/29/19	WB	15 - 110 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	61			%	1	07/29/19	WB	30 - 130 %
% 2-Fluorophenol	53			%	1	07/29/19	WB	15 - 110 %
% Nitrobenzene-d5	73			%	1	07/29/19	WB	30 - 130 %
% Phenol-d5	60			%	1	07/29/19	WB	15 - 110 %
% Terphenyl-d14	67			%	1	07/29/19	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					07/26/19	S/S	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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.

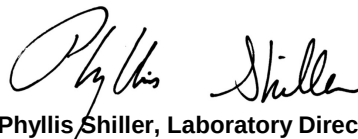
Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

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

August 08, 2019

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: TB
Received by: SW
Analyzed by: see "By" below

Date

07/24/19

Time

16:10

Laboratory Data

SDG ID: GCD65017
Phoenix ID: CD65021

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: GW DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Aluminum	1.61	0.020		mg/L	1	07/31/19	TH	SW6010D
Arsenic - LDL	< 0.004	0.004		mg/L	1	07/31/19	TH	SW6010D
Barium	0.149	0.010		mg/L	1	07/31/19	TH	SW6010D
Beryllium	< 0.001	0.001		mg/L	1	07/31/19	TH	SW6010D
Calcium	68.5	0.010		mg/L	1	07/31/19	TH	SW6010D
Cadmium	< 0.004	0.004		mg/L	1	07/31/19	TH	SW6010D
Cobalt	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Chromium	0.005	0.001		mg/L	1	07/31/19	TH	SW6010D
Copper	< 0.005	0.005		mg/L	1	07/31/19	TH	SW6010D
Silver (Dissolved)	< 0.005	0.005		mg/L	1	08/03/19	CPP	SW6010D
Aluminum (Dissolved)	0.034	0.011		mg/L	1	08/03/19	CPP	SW6010D
Arsenic, (Dissolved)	< 0.003	0.003		mg/L	1	08/03/19	CPP	SW6010D
Barium (Dissolved)	0.068	0.011		mg/L	1	08/03/19	CPP	SW6010D
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	08/03/19	CPP	SW6010D
Calcium (Dissolved)	67.4	0.01		mg/L	1	08/03/19	CPP	SW6010D
Cadmium (Dissolved)	< 0.004	0.004		mg/L	1	08/03/19	CPP	SW6010D
Cobalt, (Dissolved)	< 0.005	0.005		mg/L	1	08/03/19	CPP	SW6010D
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	08/03/19	CPP	SW6010D
Copper, (Dissolved)	< 0.005	0.005		mg/L	1	08/03/19	CPP	SW6010D
Iron, (Dissolved)	< 0.01	0.01		mg/L	1	08/03/19	CPP	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium (Dissolved)	24.8	0.1		mg/L	1	08/06/19	TH	SW6010D
Magnesium (Dissolved)	13.0	0.01		mg/L	1	08/03/19	CPP	SW6010D
Manganese, (Dissolved)	0.237	0.005		mg/L	1	08/03/19	CPP	SW6010D
Sodium (Dissolved)	81.7	1.1		mg/L	10	08/06/19	TH	SW6010D
Nickel, (Dissolved)	< 0.004	0.004		mg/L	1	08/03/19	CPP	SW6010D
Lead (Dissolved)	< 0.002	0.002		mg/L	1	08/06/19	TH	SW6010D

B*

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	< 0.0016	0.0016		mg/L	5	07/30/19	CPP	SW6020B
Selenium (Dissolved)-LDL	< 0.01	0.01		mg/L	5	07/30/19	CPP	SW6020B
Thallium (Dissolved)	< 0.0003	0.0003		mg/L	1	07/26/19	CPP	SW6020B
Vanadium, (Dissolved)	< 0.011	0.011		mg/L	1	08/03/19	CPP	SW6010D
Zinc, (Dissolved)	< 0.011	0.011		mg/L	1	08/03/19	CPP	SW6010D
Iron	3.70	0.10		mg/L	10	08/05/19	TH	SW6010D
Mercury	< 0.0002	0.0002		mg/L	1	07/29/19	RS	SW7470A
Potassium	28.8	0.1		mg/L	1	07/31/19	TH	SW6010D
Magnesium	14.0	0.010		mg/L	1	07/31/19	TH	SW6010D
Manganese	0.289	0.005		mg/L	1	07/31/19	TH	SW6010D
Sodium	91.4	1.0		mg/L	10	08/05/19	TH	SW6010D
Nickel	0.006	0.004		mg/L	1	07/31/19	TH	SW6010D
Lead	0.018	0.002		mg/L	1	07/31/19	TH	SW6010D
Antimony	< 0.0030	0.0030		mg/L	5	07/26/19	CPP	SW6020B
Selenium	< 0.010	0.010		mg/L	5	07/30/19	CPP	SW6020B
Thallium	< 0.0005	0.0005		mg/L	5	07/26/19	CPP	SW6020B
Vanadium	< 0.010	0.010		mg/L	1	07/31/19	TH	SW6010D
Zinc	0.013	0.010		mg/L	1	07/31/19	TH	SW6010D
Filtration	Completed					07/25/19	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
Mercury Digestion	Completed					07/29/19	LS/LS	SW7470A
PCB Extraction (2 Liter)	Completed					07/30/19	E/N	SW3510C
Extraction for Pest (2 Liter)	Completed					07/30/19		SW3510C
Semi-Volatile Extraction	Completed					07/25/19	P/AK/D	SW3520C
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Dissolved Metals Preparation	Completed					07/25/19	AG	SW3005A
Total Metals Digestion	Completed					07/25/19	AG	
Total Metals Digestion MS	Completed					07/25/19	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.051		ug/L	1	07/31/19	SC	SW8082A
PCB-1221	ND	0.051		ug/L	1	07/31/19	SC	SW8082A
PCB-1232	ND	0.051		ug/L	1	07/31/19	SC	SW8082A
PCB-1242	ND	0.051		ug/L	1	07/31/19	SC	SW8082A
PCB-1248	ND	0.051		ug/L	1	07/31/19	SC	SW8082A
PCB-1254	ND	0.051		ug/L	1	07/31/19	SC	SW8082A
PCB-1260	ND	0.051		ug/L	1	07/31/19	SC	SW8082A
PCB-1262	ND	0.051		ug/L	1	07/31/19	SC	SW8082A
PCB-1268	ND	0.051		ug/L	1	07/31/19	SC	SW8082A

QA/QC Surrogates

% DCBP	73			%	1	07/31/19	SC	30 - 150 %
% DCBP (Confirmation)	71			%	1	07/31/19	SC	30 - 150 %
% TCMX	76			%	1	07/31/19	SC	30 - 150 %
% TCMX (Confirmation)	69			%	1	07/31/19	SC	30 - 150 %

Pesticides

4,4' -DDD	ND	0.002		ug/L	1	07/29/19	AW	SW8081B
4,4' -DDE	0.067	0.010		ug/L	1	07/29/19	AW	SW8081B
4,4' -DDT	0.32	0.051		ug/L	5	07/27/19	AW	SW8081B
a-BHC	ND	0.005		ug/L	1	07/29/19	AW	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
a-chlordane	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Alachlor	ND	0.077		ug/L	1	07/29/19	AW	SW8081B
Aldrin	ND	0.002		ug/L	1	07/29/19	AW	SW8081B
b-BHC	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Chlordane	ND	0.021		ug/L	1	07/29/19	AW	SW8081B
d-BHC	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Dieldrin	ND	0.002		ug/L	1	07/29/19	AW	SW8081B
Endosulfan I	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Endosulfan II	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Endosulfan Sulfate	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Endrin	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Endrin Aldehyde	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Endrin ketone	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
g-BHC (Lindane)	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
g-chlordane	ND	0.010		ug/L	1	07/29/19	AW	SW8081B
Heptachlor	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Heptachlor epoxide	ND	0.005		ug/L	1	07/29/19	AW	SW8081B
Methoxychlor	ND	0.10		ug/L	1	07/29/19	AW	SW8081B
Toxaphene	ND	0.21		ug/L	1	07/29/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
%DCBP (Surrogate Rec)	78			%	1	07/29/19	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	63			%	1	07/29/19	AW	30 - 150 %
%TCMX (Surrogate Rec)	71			%	1	07/29/19	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	61			%	1	07/29/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C

Client ID: GW DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	07/25/19	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	07/25/19	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	07/25/19	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Toluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	96			%	1	07/25/19	MH	70 - 130 %

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	99			%	1	07/25/19	MH	70 - 130 %
% Dibromofluoromethane	93			%	1	07/25/19	MH	70 - 130 %
% Toluene-d8	93			%	1	07/25/19	MH	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/25/19	MH	SW8260C

1,4-dioxane

1,4-dioxane	ND	0.35		ug/l	1	07/29/19	KCA	SW8270DSIM

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QA/QC Surrogates

% 1,4-dioxane-d8	86			%	1	07/29/19	KCA	30 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	3.5	3.5	ug/L	1	07/30/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	5.1	1.5	ug/L	1	07/30/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	5.1	1.6	ug/L	1	07/30/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	07/30/19	KCA	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	07/30/19	KCA	SW8270D
2-Chloronaphthalene	ND	5.1	1.4	ug/L	1	07/30/19	KCA	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2-Methylnaphthalene	ND	5.1	1.5	ug/L	1	07/30/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
2-Nitroaniline	ND	5.0	2.0	ug/L	1	07/30/19	KCA	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	07/30/19	KCA	SW8270D
3-Nitroaniline	ND	5.0	2.0	ug/L	1	07/30/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	5.1	1.5	ug/L	1	07/30/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
4-Chloroaniline	ND	3.5	2.4	ug/L	1	07/30/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	5.1	1.7	ug/L	1	07/30/19	KCA	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	07/30/19	KCA	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Acenaphthene	ND	5.1	1.5	ug/L	1	07/30/19	KCA	SW8270D
Acetophenone	ND	5.1	1.6	ug/L	1	07/30/19	KCA	SW8270D
Aniline	ND	3.5	3.5	ug/L	1	07/30/19	KCA	SW8270D
Anthracene	ND	5.1	1.7	ug/L	1	07/30/19	KCA	SW8270D
Benzidine	ND	4.5	3.0	ug/L	1	07/30/19	KCA	SW8270D

Client ID: GW DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzoic acid	ND	25	10	ug/L	1	07/30/19	KCA	SW8270D
Benzyl butyl phthalate	ND	5.1	1.3	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.1	1.4	ug/L	1	07/30/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Carbazole	ND	5.1	3.8	ug/L	1	07/30/19	KCA	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
Diethyl phthalate	ND	5.1	1.6	ug/L	1	07/30/19	KCA	SW8270D
Dimethylphthalate	ND	5.1	1.6	ug/L	1	07/30/19	KCA	SW8270D
Di-n-butylphthalate	ND	5.1	1.3	ug/L	1	07/30/19	KCA	SW8270D
Di-n-octylphthalate	ND	5.1	1.3	ug/L	1	07/30/19	KCA	SW8270D
Fluoranthene	ND	5.1	1.6	ug/L	1	07/30/19	KCA	SW8270D
Fluorene	ND	5.1	1.7	ug/L	1	07/30/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
Hexachloroethane	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Isophorone	ND	5.1	1.4	ug/L	1	07/30/19	KCA	SW8270D
Naphthalene	ND	5.0	1.5	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	5.1	1.6	ug/L	1	07/30/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	5.1	1.9	ug/L	1	07/30/19	KCA	SW8270D
Pentachloronitrobenzene	ND	2.5	2.5	ug/L	1	07/30/19	KCA	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	07/30/19	KCA	SW8270D
Pyrene	ND	5.1	1.7	ug/L	1	07/30/19	KCA	SW8270D
Pyridine	ND	10	1.2	ug/L	1	07/30/19	KCA	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	96			%	1	07/30/19	KCA	15 - 110 %
% 2-Fluorobiphenyl	63			%	1	07/30/19	KCA	30 - 130 %
% 2-Fluorophenol	37			%	1	07/30/19	KCA	15 - 110 %
% Nitrobenzene-d5	50			%	1	07/30/19	KCA	30 - 130 %
% Phenol-d5	<10			%	1	07/30/19	KCA	15 - 110 %
% Terphenyl-d14	38			%	1	07/30/19	KCA	30 - 130 %
<u>Semivolatiles</u>								
Acenaphthylene	ND	0.51	0.51	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benz(a)anthracene	0.04	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(b)fluoranthene	0.04	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.51	0.51	ug/L	1	07/29/19	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Chrysene	0.05	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.51	0.51	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	07/29/19	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	07/29/19	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	07/29/19	WB	SW8270D (SIM)
Nitrobenzene	ND	0.40	0.40	ug/L	1	07/29/19	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	07/29/19	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.51	0.51	ug/L	1	07/29/19	WB	SW8270D (SIM)
Phenanthrene	ND	0.51	0.51	ug/L	1	07/29/19	WB	SW8270D (SIM)
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	82			%	1	07/29/19	WB	15 - 110 %

Client ID: GW DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	60			%	1	07/29/19	WB	30 - 130 %
% 2-Fluorophenol	35			%	1	07/29/19	WB	15 - 110 %
% Nitrobenzene-d5	51			%	1	07/29/19	WB	30 - 130 %
% Phenol-d5	<10			%	1	07/29/19	WB	15 - 110 %
% Terphenyl-d14	39			%	1	07/29/19	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					07/26/19	S/S	

1 = This parameter is not certified by the primary accrediting authority (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.

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

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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.

Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

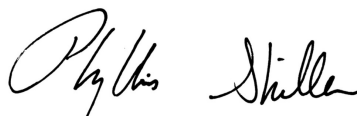
Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

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

August 08, 2019

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: TB
Received by: SW
Analyzed by: see "By" below

Date

07/24/19

Time

16:10

Laboratory Data

SDG ID: GCD65017
Phoenix ID: CD65022

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: GW TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	07/25/19	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C

Client ID: GW TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromobenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	07/25/19	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	07/25/19	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	07/25/19	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	07/25/19	MH	SW8260C
Toluene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	07/25/19	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	07/25/19	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	07/25/19	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	94			%	1	07/25/19	MH	70 - 130 %
% Bromofluorobenzene	97			%	1	07/25/19	MH	70 - 130 %
% Dibromofluoromethane	102			%	1	07/25/19	MH	70 - 130 %

1

Client ID: GW TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	92			%	1	07/25/19	MH	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	07/25/19	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	07/25/19	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	07/25/19	MH	SW8260C

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

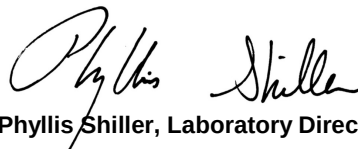
Comments:

TRIP BLANK INCLUDED.

Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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QA/QC Report

August 08, 2019

QA/QC Data

SDG I.D.: GCD65017

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCS %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 489577 (mg/L), QC Sample No: CD64698 (CD65017, CD65018, CD65019, CD65020, CD65021)

Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0003	NC	89.3			90.2			80 - 120	20

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 489579 (mg/L), QC Sample No: CD65012 (CD65017, CD65018, CD65019, CD65020, CD65021)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	82.9			87.4			80 - 120	20

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 489557 (mg/L), QC Sample No: CD63575 (CD65017, CD65018, CD65019, CD65020, CD65021)

ICP Metals - Dissolved

Aluminum	BRL	0.011	0.035	0.040	NC	93.7	93.7	0.0	98.6			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	109	107	1.9	109			75 - 125	20
Barium	BRL	0.002	0.089	0.094	5.50	101	99.3	1.7	103			75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	107	105	1.9	105			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	108	109	0.9	102			75 - 125	20
Calcium	BRL	0.01	126	127	0.80	101	101	0.0	NC			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	106	104	1.9	103			75 - 125	20
Cobalt	BRL	0.001	<0.001	<0.001	NC	109	107	1.9	106			75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	101	102	1.0	108			75 - 125	20
Iron	BRL	0.011	3.92	3.88	1.00	110	108	1.8	113			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	103	101	2.0	98.8			75 - 125	20
Magnesium	BRL	0.01	19.7	19.8	0.50	108	109	0.9	NC			75 - 125	20
Manganese	BRL	0.001	1.10	1.12	1.80	106	109	2.8	108			75 - 125	20
Nickel	BRL	0.001	0.024	0.024	0	107	105	1.9	103			75 - 125	20
Potassium	BRL	0.1	5.3	5.4	1.90	88.9	90.4	1.7	94.2			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	99.9	98.9	1.0	106			75 - 125	20
Sodium	BRL	0.11	21.4	21.8	1.90	86.8	86.9	0.1	NC			75 - 125	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	101	100	1.0	101			75 - 125	20
Zinc	BRL	0.002	0.002	0.002	NC	107	105	1.9	103			75 - 125	20

QA/QC Batch 489503 (mg/L), QC Sample No: CD64747 (CD65017, CD65018, CD65019, CD65020, CD65021)

ICP Metals - Aqueous

Aluminum	BRL	0.020	0.053	0.053	NC	96.3	97.9	1.6	101			75 - 125	20
Arsenic	BRL	0.004	<0.004	0.006	NC	96.5	98.9	2.5	101			75 - 125	20
Barium	BRL	0.002	0.007	0.007	NC	101	102	1.0	105			75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	97.0	98.3	1.3	102			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	97.8	99.6	1.8	104			75 - 125	20
Calcium	BRL	0.010	0.810	0.809	0.10	97.1	98.2	1.1	104			75 - 125	20
Chromium	0.002	0.001	0.001	<0.001	NC	96.6	98.0	1.4	101			75 - 125	20
Cobalt	BRL	0.002	<0.002	<0.002	NC	96.6	98.0	1.4	102			75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	96.0	97.4	1.4	101			75 - 125	20
Iron	BRL	0.010	0.359	0.106	109	103	90.2	13.3	75.8			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	92.0	93.3	1.4	97.0			75 - 125	20

QA/QC Data

SDG I.D.: GCD65017

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Magnesium	BRL	0.010	0.096	0.094	2.10	100	101	1.0	104			75 - 125	20
Manganese	BRL	0.001	0.012	0.010	18.2	96.2	97.1	0.9	100			75 - 125	20
Nickel	BRL	0.001	0.002	0.001	NC	95.7	97.2	1.6	101			75 - 125	20
Potassium	BRL	0.1	0.3	0.3	NC	101	102	1.0	102			75 - 125	20
Silver	BRL	0.001	0.001	<0.001	NC	96.2	97.6	1.4	102			75 - 125	20
Sodium	BRL	0.10	0.41	0.40	NC	98.1	99.1	1.0	99.2			75 - 125	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	95.1	96.3	1.3	99.9			75 - 125	20
Zinc	BRL	0.004	0.178	0.177	0.60	94.1	95.7	1.7	100			75 - 125	20

QA/QC Batch 489559 (mg/L), QC Sample No: CD62827 (CD65017, CD65018, CD65019, CD65020, CD65021)

ICP Metals MS - Dissolved

Antimony	BRL	0.0003	0.0030	0.0030	0	84.0	85.1	1.3	92.8			75 - 125	20
Selenium	BRL	0.002	<0.011	<0.011	NC	92.1	89.5	2.9	35.4			75 - 125	20 m
Thallium	BRL	0.0003	<0.0003	<0.0003	NC	98.9	97.4	1.5	92.6			75 - 125	20

QA/QC Batch 489512 (mg/L), QC Sample No: CD65017 5X (CD65017, CD65018, CD65019, CD65020, CD65021)

ICP MS Metals - Aqueous

Antimony	BRL	0.0030	<0.0030	<0.0030	NC	112	106	5.5	105			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	124	124	0.0	96.0			75 - 125	20
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	118	110	7.0	111			75 - 125	20

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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



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



QA/QC Report

August 08, 2019

QA/QC Data

SDG I.D.: GCD65017

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 489548 (ug/L), QC Sample No: CD64583 (CD65017, CD65018, CD65019, CD65020)										
Polychlorinated Biphenyls - Ground Water										
PCB-1016	ND	0.050	65	88	30.1				40 - 140	20 r
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	78	98	22.7				40 - 140	20 r
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	77	%	69	103	39.5				30 - 150	20 r
% DCBP (Surrogate Rec) (Confirm)	80	%	72	106	38.2				30 - 150	20 r
% TCMX (Surrogate Rec)	73	%	79	95	18.4				30 - 150	20
% TCMX (Surrogate Rec) (Confirm)	73	%	81	97	18.0				30 - 150	20

Comment:

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

QA/QC Batch 490240 (ug/L), QC Sample No: CD67592 (CD65021)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.25	86	82	4.8				40 - 140	20
PCB-1221	ND	0.25							40 - 140	20
PCB-1232	ND	0.25							40 - 140	20
PCB-1242	ND	0.25							40 - 140	20
PCB-1248	ND	0.25							40 - 140	20
PCB-1254	ND	0.25							40 - 140	20
PCB-1260	ND	0.25	94	95	1.1				40 - 140	20
PCB-1262	ND	0.25							40 - 140	20
PCB-1268	ND	0.25							40 - 140	20
% DCBP (Surrogate Rec)	106	%	72	73	1.4				30 - 150	20
% DCBP (Surrogate Rec) (Confirm)	108	%	70	74	5.6				30 - 150	20
% TCMX (Surrogate Rec)	96	%	80	81	1.2				30 - 150	20
% TCMX (Surrogate Rec) (Confirm)	92	%	77	86	11.0				30 - 150	20

Comment:

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

QA/QC Batch 489551 (ug/L), QC Sample No: CD65017 (CD65017, CD65018, CD65019, CD65020, CD65021)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	88	102	14.7				40 - 140	20
4,4' -DDE	ND	0.003	102	97	5.0				40 - 140	20
4,4' -DDT	ND	0.003	89	98	9.6				40 - 140	20
a-BHC	ND	0.002	82	82	0.0				40 - 140	20
a-Chlordane	ND	0.005	86	90	4.5				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20

QA/QC Data

SDG I.D.: GCD65017

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Aldrin	ND	0.002	77	76	1.3				40 - 140	20
b-BHC	ND	0.002	113	127	11.7				40 - 140	20
Chlordane	ND	0.050	89	93	4.4				40 - 140	20
d-BHC	ND	0.005	73	77	5.3				40 - 140	20
Dieldrin	ND	0.002	83	88	5.8				40 - 140	20
Endosulfan I	ND	0.005	93	97	4.2				40 - 140	20
Endosulfan II	ND	0.005	103	114	10.1				40 - 140	20
Endosulfan sulfate	ND	0.005	98	134	31.0				40 - 140	20 r
Endrin	ND	0.005	87	98	11.9				40 - 140	20
Endrin aldehyde	ND	0.005	107	114	6.3				40 - 140	20
Endrin ketone	ND	0.005	101	132	26.6				40 - 140	20 r
g-BHC	ND	0.002	80	86	7.2				40 - 140	20
g-Chlordane	ND	0.005	89	93	4.4				40 - 140	20
Heptachlor	ND	0.005	80	69	14.8				40 - 140	20
Heptachlor epoxide	ND	0.005	87	92	5.6				40 - 140	20
Methoxychlor	ND	0.005	96	109	12.7				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	79	%	69	85	20.8				30 - 150	20 r
% DCBP (Confirmation)	72	%	65	82	23.1				30 - 150	20 r
% TCMX	62	%	67	71	5.8				30 - 150	20
% TCMX (Confirmation)	64	%	74	75	1.3				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 as chlordane in the LCS and LCSD

QA/QC Batch 489506 (ug/L), QC Sample No: CD64890 (CD65017, CD65018, CD65019, CD65020, CD65021)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	72	83	14.2				30 - 130	20
1,2,4-Trichlorobenzene	ND	3.5	73	80	9.2				30 - 130	20
1,2-Dichlorobenzene	ND	1.0	68	68	0.0				30 - 130	20
1,2-Diphenylhydrazine	ND	1.6	76	72	5.4				30 - 130	20
1,3-Dichlorobenzene	ND	1.0	67	67	0.0				30 - 130	20
1,4-Dichlorobenzene	ND	1.0	68	67	1.5				30 - 130	20
2,4,5-Trichlorophenol	ND	1.0	92	97	5.3				30 - 130	20
2,4,6-Trichlorophenol	ND	1.0	97	98	1.0				30 - 130	20
2,4-Dichlorophenol	ND	1.0	85	93	9.0				30 - 130	20
2,4-Dimethylphenol	ND	1.0	87	99	12.9				30 - 130	20
2,4-Dinitrophenol	ND	1.0	95	100	5.1				30 - 130	20
2,4-Dinitrotoluene	ND	3.5	90	98	8.5				30 - 130	20
2,6-Dinitrotoluene	ND	3.5	91	95	4.3				30 - 130	20
2-Chloronaphthalene	ND	3.5	82	87	5.9				30 - 130	20
2-Chlorophenol	ND	1.0	71	71	0.0				30 - 130	20
2-Methylnaphthalene	ND	3.5	69	79	13.5				30 - 130	20
2-Methylphenol (o-cresol)	ND	1.0	75	71	5.5				30 - 130	20
2-Nitroaniline	ND	3.5	113	65	53.9				30 - 130	20 r
2-Nitrophenol	ND	1.0	79	89	11.9				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	1.0	83	77	7.5				30 - 130	20
3,3'-Dichlorobenzidine	ND	5.0	65	<10	NC				30 - 130	20 l
3-Nitroaniline	ND	5.0	103	29	112.1				30 - 130	20 l,r
4,6-Dinitro-2-methylphenol	ND	1.0	111	111	0.0				30 - 130	20
4-Bromophenyl phenyl ether	ND	3.5	83	90	8.1				30 - 130	20
4-Chloro-3-methylphenol	ND	1.0	91	98	7.4				30 - 130	20
4-Chloroaniline	ND	3.5	85	15	140.0				30 - 130	20 l,r

QA/QC Data

SDG I.D.: GCD65017

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4-Chlorophenyl phenyl ether	ND	1.0	84	87	3.5				30 - 130	20
4-Nitroaniline	ND	5.0	88	91	3.4				30 - 130	20
4-Nitrophenol	ND	1.0	103	104	1.0				15 - 130	20
Acenaphthene	ND	1.5	85	89	4.6				30 - 130	20
Acetophenone	ND	3.5	74	72	2.7				30 - 130	20
Aniline	ND	3.5	75	45	50.0				30 - 130	20
Anthracene	ND	1.5	86	88	2.3				30 - 130	20
Benzidine	ND	4.5	<10	<10	NC				30 - 130	20
Benzoic acid	ND	10	61	104	52.1				30 - 130	20
Benzyl butyl phthalate	ND	1.5	87	90	3.4				30 - 130	20
Bis(2-chloroethoxy)methane	ND	3.5	74	76	2.7				30 - 130	20
Bis(2-chloroethyl)ether	ND	1.0	58	59	1.7				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	1.0	54	56	3.6				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	1.5	88	94	6.6				30 - 130	20
Carbazole	ND	5.0	88	77	13.3				30 - 130	20
Dibenzofuran	ND	3.5	79	85	7.3				30 - 130	20
Diethyl phthalate	ND	1.5	90	94	4.3				30 - 130	20
Dimethylphthalate	ND	1.5	86	91	5.6				30 - 130	20
Di-n-butylphthalate	ND	1.5	91	97	6.4				30 - 130	20
Di-n-octylphthalate	ND	1.5	91	98	7.4				30 - 130	20
Fluoranthene	ND	1.5	85	91	6.8				30 - 130	20
Fluorene	ND	1.5	87	89	2.3				30 - 130	20
Hexachlorocyclopentadiene	ND	3.5	33	34	3.0				30 - 130	20
Hexachloroethane	ND	3.5	66	64	3.1				30 - 130	20
Isophorone	ND	3.5	73	81	10.4				30 - 130	20
Naphthalene	ND	1.5	73	80	9.2				30 - 130	20
N-Nitrosodi-n-propylamine	ND	3.5	78	78	0.0				30 - 130	20
N-Nitrosodiphenylamine	ND	3.5	75	60	22.2				30 - 130	20
Pentachloronitrobenzene	ND	5.0	84	94	11.2				30 - 130	20
Phenol	ND	1.0	69	62	10.7				15 - 130	20
Pyrene	ND	1.5	88	94	6.6				30 - 130	20
Pyridine	ND	5.0	57	<10	NC				30 - 130	20
% 2,4,6-Tribromophenol	73	%	97	101	4.0				15 - 110	20
% 2-Fluorobiphenyl	65	%	75	80	6.5				30 - 130	20
% 2-Fluorophenol	64	%	59	55	7.0				15 - 110	20
% Nitrobenzene-d5	63	%	68	70	2.9				30 - 130	20
% Phenol-d5	47	%	63	55	13.6				15 - 110	20
% Terphenyl-d14	75	%	84	91	8.0				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%)

QA/QC Batch 489702 (ug/l), QC Sample No: CD65017 (CD65017, CD65018, CD65019, CD65020, CD65021)

1,4dioxane - Ground Water

1,4-dioxane	ND	0.35	107	107	0.0	106			30 - 130	20
% 1,4-dioxane-d8	90	%	93	88	5.5	92			30 - 130	20

QA/QC Batch 489506 (ug/L), QC Sample No: CD64890 (CD65017, CD65018, CD65019, CD65020, CD65021)

Semivolatiles (SIM) - Ground Water

Acenaphthylene	ND	0.50	95	83	13.5				30 - 130	20
Benz(a)anthracene	ND	0.50	109	94	14.8				30 - 130	20
Benzo(a)pyrene	ND	0.50	92	80	14.0				30 - 130	20
Benzo(b)fluoranthene	ND	0.50	106	93	13.1				30 - 130	20
Benzo(ghi)perylene	ND	0.50	82	75	8.9				30 - 130	20

QA/QC Data

SDG I.D.: GCD65017

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(k)fluoranthene	ND	0.50	93	84	10.2				30 - 130	20
Chrysene	ND	0.50	105	95	10.0				30 - 130	20
Dibenz(a,h)anthracene	ND	0.50	105	94	11.1				30 - 130	20
Hexachlorobenzene	ND	0.50	92	82	11.5				30 - 130	20
Hexachlorobutadiene	ND	0.50	74	68	8.5				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.50	89	78	13.2				30 - 130	20
Nitrobenzene	ND	0.50	81	83	2.4				30 - 130	20
N-Nitrosodimethylamine	ND	0.05	87	76	13.5				30 - 130	20
Pentachlorophenol	ND	0.50	103	88	15.7				30 - 130	20
Phenanthrene	ND	0.50	88	79	10.8				30 - 130	20
% 2,4,6-Tribromophenol	74	%	110	96	13.6				15 - 110	20
% 2-Fluorobiphenyl	64	%	76	70	8.2				30 - 130	20
% 2-Fluorophenol	63	%	62	51	19.5				15 - 110	20
% Nitrobenzene-d5	80	%	91	79	14.1				30 - 130	20
% Phenol-d5	56	%	75	55	30.8				15 - 110	20
% Terphenyl-d14	74	%	89	77	14.5				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%)

QA/QC Batch 489615 (ug/L), QC Sample No: CD65022 (CD65017, CD65018, CD65019, CD65020, CD65021, CD65022)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	89	95	6.5				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	102	97	5.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	90	99	9.5				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	83	93	11.4				70 - 130	30
1,1-Dichloroethane	ND	1.0	98	95	3.1				70 - 130	30
1,1-Dichloroethene	ND	1.0	111	110	0.9				70 - 130	30
1,1-Dichloropropene	ND	1.0	95	94	1.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	84	103	20.3				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	81	89	9.4				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	87	94	7.7				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	89	89	0.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	77	91	16.7				70 - 130	30
1,2-Dibromoethane	ND	1.0	85	95	11.1				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	87	93	6.7				70 - 130	30
1,2-Dichloroethane	ND	1.0	86	95	9.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	89	95	6.5				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	91	91	0.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	89	92	3.3				70 - 130	30
1,3-Dichloropropane	ND	1.0	85	95	11.1				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	90	92	2.2				70 - 130	30
2,2-Dichloropropane	ND	1.0	102	96	6.1				70 - 130	30
2-Chlorotoluene	ND	1.0	94	92	2.2				70 - 130	30
2-Hexanone	ND	5.0	83	95	13.5				70 - 130	30
2-Isopropyltoluene	ND	1.0	97	98	1.0				70 - 130	30
4-Chlorotoluene	ND	1.0	87	88	1.1				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	89	105	16.5				70 - 130	30
Acetone	ND	5.0	82	103	22.7				70 - 130	30
Acrolein	ND	5.0	91	104	13.3				70 - 130	30
Acrylonitrile	ND	5.0	90	104	14.4				70 - 130	30
Benzene	ND	0.70	86	88	2.3				70 - 130	30
Bromobenzene	ND	1.0	90	92	2.2				70 - 130	30

QA/QC Data

SDG I.D.: GCD65017

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromochloromethane	ND	1.0	91	99	8.4				70 - 130	30
Bromodichloromethane	ND	0.50	91	99	8.4				70 - 130	30
Bromoform	ND	1.0	85	97	13.2				70 - 130	30
Bromomethane	ND	1.0	93	95	2.1				70 - 130	30
Carbon Disulfide	ND	1.0	120	112	6.9				70 - 130	30
Carbon tetrachloride	ND	1.0	110	101	8.5				70 - 130	30
Chlorobenzene	ND	1.0	92	94	2.2				70 - 130	30
Chloroethane	ND	1.0	102	96	6.1				70 - 130	30
Chloroform	ND	1.0	95	94	1.1				70 - 130	30
Chloromethane	ND	1.0	101	100	1.0				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	99	99	0.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	89	95	6.5				70 - 130	30
Dibromochloromethane	ND	0.50	87	99	12.9				70 - 130	30
Dibromomethane	ND	1.0	84	95	12.3				70 - 130	30
Dichlorodifluoromethane	ND	1.0	135	127	6.1				70 - 130	30
Ethylbenzene	ND	1.0	91	92	1.1				70 - 130	30
Hexachlorobutadiene	ND	0.40	100	94	6.2				70 - 130	30
Isopropylbenzene	ND	1.0	90	92	2.2				70 - 130	30
m&p-Xylene	ND	1.0	86	91	5.6				70 - 130	30
Methyl ethyl ketone	ND	5.0	123	133	7.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	85	96	12.2				70 - 130	30
Methylene chloride	ND	1.0	90	89	1.1				70 - 130	30
Naphthalene	ND	1.0	86	99	14.1				70 - 130	30
n-Butylbenzene	ND	1.0	90	92	2.2				70 - 130	30
n-Propylbenzene	ND	1.0	93	93	0.0				70 - 130	30
o-Xylene	ND	1.0	91	93	2.2				70 - 130	30
p-Isopropyltoluene	ND	1.0	89	91	2.2				70 - 130	30
sec-Butylbenzene	ND	1.0	94	97	3.1				70 - 130	30
Styrene	ND	1.0	87	93	6.7				70 - 130	30
tert-butyl alcohol	ND	10	99	102	3.0				70 - 130	30
tert-Butylbenzene	ND	1.0	90	92	2.2				70 - 130	30
Tetrachloroethene	ND	1.0	94	96	2.1				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	83	91	9.2				70 - 130	30
Toluene	ND	1.0	92	93	1.1				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	108	99	8.7				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	85	95	11.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	82	94	13.6				70 - 130	30
Trichloroethene	ND	1.0	95	94	1.1				70 - 130	30
Trichlorofluoromethane	ND	1.0	105	100	4.9				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	119	118	0.8				70 - 130	30
Vinyl chloride	ND	1.0	114	110	3.6				70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	101	99	2.0				70 - 130	30
% Bromofluorobenzene	98	%	97	99	2.0				70 - 130	30
% Dibromofluoromethane	101	%	110	100	9.5				70 - 130	30
% Toluene-d8	94	%	102	100	2.0				70 - 130	30

Comment:

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

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

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

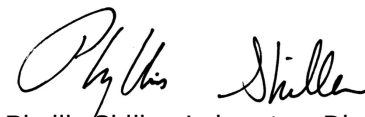
QA/QC Data

SDG I.D.: GCD65017

Parameter	Blk		LCS	LCSD	LCS	MS	MSD	MS	% Rec	% RPD
	Blank	RL								
			%	%	RPD	%	%	RPD	Limits	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
August 08, 2019

Thursday, August 08, 2019

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCD65017 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD65017	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CD65017	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD65017	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD65017	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Benzo(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.08	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.07	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.07	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.05	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.06	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.06	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.05	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.07	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Benzo(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.08	0.02	0.002	0.002	ug/L
CD65017	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002	ug/L
CD65017	\$PEST_GAWN	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.32	0.047	0.01	0.01	ug/L
CD65017	\$PEST_GAWN	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	6.4	2.4	0.1	0.1	ug/L
CD65017	\$PEST_GAWN	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.024	0.01	0.01	ug/L
CD65017	\$PEST_GAWN	g-chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.24	0.1	0.1	ug/L
CD65017	\$PEST_GAWN	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.024	0.01	0.01	ug/L
CD65017	\$PEST_GAWN	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.94	0.06	0.06	ug/L
CD65017	\$PEST_GAWN	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	0.32	0.047	0.03	0.03	ug/L
CD65017	\$PEST_GAWN	Chlordane	NY / TOGS - Water Quality / GA Criteria	6.4	2.4	0.05	0.05	ug/L
CD65017	\$PEST_GAWN	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND	0.009	0.004	0.004	ug/L
CD65017	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	4.25	0.020	0.1	0.1	mg/L
CD65017	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.01	0.005	0.3	0.3	mg/L
CD65017	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	326	1.1	20	20	mg/L
CD65017	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	15.5	1.0	0.3	0.3	mg/L
CD65017	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	1.53	0.005	0.3	0.3	mg/L
CD65017	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	358	10	20	20	mg/L
CD65018	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD65018	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD65018	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CD65018	\$DP8270-SIMR	Benzo(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.08	0.02	0.002	0.002	ug/L
CD65018	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.08	0.02	0.002	0.002	ug/L
CD65018	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.07	0.02	0.002	0.002	ug/L
CD65018	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.06	0.02	0.002	0.002	ug/L
CD65018	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002	ug/L
CD65018	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.07	0.02	0.002	0.002	ug/L
CD65018	\$DP8270-SIMR	Benzo(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.08	0.02	0.002	0.002	ug/L
CD65018	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.07	0.02	0.002	0.002	ug/L
CD65018	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.06	0.02	0.002	0.002	ug/L

Thursday, August 08, 2019

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCD65017 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD65018	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002	ug/L
CD65018	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.07	0.02	0.002	0.002	ug/L
CD65018	\$PEST_GAWN	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.24	0.051	0.01	0.01	ug/L
CD65018	\$PEST_GAWN	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.044	0.010	0.01	0.01	ug/L
CD65018	\$PEST_GAWN	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.20	0.06	0.06	ug/L
CD65018	\$PEST_GAWN	4,4' -DDT	NY / TOGS - Water Quality / GA Criteria	0.24	0.051	0.2	0.2	ug/L
CD65018	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	1.54	0.020	0.1	0.1	mg/L
CD65018	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	95.3	1.1	20	20	mg/L
CD65018	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	3.45	0.10	0.3	0.3	mg/L
CD65018	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	86.5	1.0	20	20	mg/L
CD65019	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CD65019	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD65019	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD65019	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65019	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65019	\$PEST_GAWN	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.20	0.06	0.06	ug/L
CD65019	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	23.8	0.020	0.1	0.1	mg/L
CD65019	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.998	0.005	0.3	0.3	mg/L
CD65019	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	154	1.1	20	20	mg/L
CD65019	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	43.9	0.10	0.3	0.3	mg/L
CD65019	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	1.72	0.005	0.3	0.3	mg/L
CD65019	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	169	1.0	20	20	mg/L
CD65020	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD65020	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CD65020	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD65020	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65020	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65020	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65020	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65020	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65020	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L

Thursday, August 08, 2019

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCD65017 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD65020	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65020	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65020	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65020	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65020	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65020	\$PEST_GAWN	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CD65020	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	4.32	0.020	0.1	0.1	mg/L
CD65020	DFE-WMDP	Iron, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	2.93	0.01	0.3	0.3	mg/L
CD65020	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	3.18	0.053	0.3	0.3	mg/L
CD65020	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	222	1.1	20	20	mg/L
CD65020	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	29.8	0.10	0.3	0.3	mg/L
CD65020	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	35.6	0.010	35	35	mg/L
CD65020	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	3.37	0.050	0.3	0.3	mg/L
CD65020	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	221	1.0	20	20	mg/L
CD65021	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD65021	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CD65021	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD65021	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.05	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.04	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.04	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.04	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.04	0.02	0.002	0.002	ug/L
CD65021	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.05	0.02	0.002	0.002	ug/L
CD65021	\$PEST_GAWN	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.067	0.010	0.01	0.01	ug/L
CD65021	\$PEST_GAWN	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.32	0.051	0.01	0.01	ug/L
CD65021	\$PEST_GAWN	4,4' -DDT	NY / TOGS - Water Quality / GA Criteria	0.32	0.051	0.2	0.2	ug/L
CD65021	\$PEST_GAWN	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.21	0.06	0.06	ug/L
CD65021	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	1.61	0.020	0.1	0.1	mg/L
CD65021	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	81.7	1.1	20	20	mg/L
CD65021	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	3.70	0.10	0.3	0.3	mg/L
CD65021	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	91.4	1.0	20	20	mg/L
CD65022	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CD65022	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CD65022	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L

Thursday, August 08, 2019

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCD65017 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance 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



Analysis Comments

August 08, 2019

SDG I.D.: GCD65017

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

VOA Narration

CHEM17 07/25/19-2: CD65017, CD65018, CD65019, CD65020, CD65021, CD65022

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 26% (20%), Methyl ethyl ketone 28% (20%), trans-1,4-dichloro-2-butene 22% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.043 (0.05), 2-Hexanone 0.079 (0.1), Acetone 0.050 (0.1), Acrolein 0.030 (0.05), Bromoform 0.081 (0.1), Methyl ethyl ketone 0.048 (0.1), Tetrahydrofuran (THF) 0.041 (0.05)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.036 (0.05), Acetone 0.047 (0.05), Acrolein 0.025 (0.05), Acrylonitrile 0.045 (0.05), Tetrahydrofuran (THF) 0.034 (0.05)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



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NY Temperature Narration

August 08, 2019

SDG I.D.: GCD65017

The samples in this delivery group were received at 3.6°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



Thursday, August 08, 2019

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

Project ID: 33 FRANKLIN ST BROOKLYN
SDG ID: GCD62909
Sample ID#s: CD62909 - CD62923, CD62925

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. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
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
UT Lab Registration #CT00007
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



SDG Comments

August 08, 2019

SDG I.D.: GCD62909

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

August 08, 2019

SDG I.D.: GCD62909

Project ID: 33 FRANKLIN ST BROOKLYN

Client Id	Lab Id	Matrix
SB2 (0-2)	CD62909	SOIL
SB2 (5-7)	CD62910	SOIL
SB3 (0-2)	CD62911	SOIL
SB3 (5-7)	CD62912	SOIL
SB4 (0-2)	CD62913	SOIL
SB4 (5-7)	CD62914	SOIL
SB6 (0-2)	CD62915	SOIL
SB6 (5-7)	CD62916	SOIL
SB7 (0-2)	CD62917	SOIL
SB7 (5-7)	CD62918	SOIL
SB8 (0-2)	CD62919	SOIL
SB8 (5-7)	CD62920	SOIL
SB9 (0-2)	CD62921	SOIL
SB9 (5-7)	CD62922	SOIL
SOIL DUPLICATE	CD62923	SOIL
TRIP BLANK HL	CD62925	SOIL



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



Analysis Report

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

9:25
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62909

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB2 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	6190	37		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	5.88	0.75		mg/Kg	1	07/26/19	EK	SW6010D
Barium	718	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.38	0.30		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	72800	37		mg/Kg	10	07/26/19	EK	SW6010D
Cadmium	0.80	0.37		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	6.54	0.37		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	17.2	0.37		mg/Kg	1	07/26/19	EK	SW6010D
Copper	45.2	0.7		mg/kg	1	07/26/19	EK	SW6010D
Iron	18200	37		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	0.49	0.03		mg/Kg	2	07/24/19	RS	SW7471B
Potassium	1140	7		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	3860	3.7		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	346	3.7		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	614	7		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	11.3	0.37		mg/Kg	1	07/26/19	EK	SW6010D
Lead	645	7.5		mg/Kg	10	07/26/19	EK	SW6010D
Antimony	< 3.7	3.7		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.5	1.5		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.5	1.5		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	27.0	0.37		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	711	7.5		mg/Kg	10	07/26/19	EK	SW6010D
Percent Solid	88			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	I/I	SW7471B
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	75	75	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1221	ND	75	75	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1232	ND	75	75	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1242	ND	75	75	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1248	ND	75	75	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1254	ND	75	75	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1260	ND	75	75	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1262	ND	75	75	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1268	ND	75	75	ug/Kg	2	07/26/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	57			%	2	07/26/19	SC	30 - 150 %
% DCBP (Confirmation)	57			%	2	07/26/19	SC	30 - 150 %
% TCMX	55			%	2	07/26/19	SC	30 - 150 %
% TCMX (Confirmation)	55			%	2	07/26/19	SC	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	26	5.2	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	5.2	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	10	JS 26	5.2	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	10	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	5.2	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	5.2	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Methylene chloride	ND	5.2	5.2	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	2.6	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	2.6	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	5.2	0.52	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	91			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	93			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	78		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	91			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	93			%	1	07/24/19	JLI	70 - 130 %

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	21		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	5.2		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	21		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	100		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	260	92	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrophenol	ND	260	260	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	180	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	260	260	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	260	240	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	150	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	370	750	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	220	75	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	300	170	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	370	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	370	170	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	300	300	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	560	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	370	220	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	600	190	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	600	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	500	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	560	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1900	750	ug/Kg	1	07/25/19	WB	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	260	96	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	120	J 260	110	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	190	150	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	630	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	260	99	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	260	96	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	1100	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachloroethane	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	520	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	190	100	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	580	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	930	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	260	92	ug/Kg	1	07/25/19	WB	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	87			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	68			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	59			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	70			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	69			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	66			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

9:35
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62910

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB2 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.44	0.44		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	11300	44		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	4.44	0.88		mg/Kg	1	07/26/19	EK	SW6010D
Barium	75.2	0.9		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.60	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	1780	44		mg/Kg	10	07/26/19	EK	SW6010D
Cadmium	< 0.44	0.44		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	6.40	0.44		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	14.0	0.44		mg/Kg	1	07/26/19	EK	SW6010D
Copper	11.1	0.9		mg/kg	1	07/26/19	EK	SW6010D
Iron	16900	44		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	07/24/19	RS	SW7471B
Potassium	916	9		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	2890	4.4		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	297	4.4		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	309	9		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	14.5	0.44		mg/Kg	1	07/26/19	EK	SW6010D
Lead	9.0	0.9		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 4.4	4.4		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.8	1.8		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.8	1.8		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	17.8	0.44		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	41.1	0.9		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	79			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/23/19	MM/V	SW3545A
Soil Extraction for Pesticides	Completed					07/23/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	I/I	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	84	84	ug/Kg	2	07/24/19	SC	SW8082A
PCB-1221	ND	84	84	ug/Kg	2	07/24/19	SC	SW8082A
PCB-1232	ND	84	84	ug/Kg	2	07/24/19	SC	SW8082A
PCB-1242	ND	84	84	ug/Kg	2	07/24/19	SC	SW8082A
PCB-1248	ND	84	84	ug/Kg	2	07/24/19	SC	SW8082A
PCB-1254	ND	84	84	ug/Kg	2	07/24/19	SC	SW8082A
PCB-1260	ND	84	84	ug/Kg	2	07/24/19	SC	SW8082A
PCB-1262	ND	84	84	ug/Kg	2	07/24/19	SC	SW8082A
PCB-1268	ND	84	84	ug/Kg	2	07/24/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	54			%	2	07/24/19	SC	30 - 150 %
% DCBP (Confirmation)	54			%	2	07/24/19	SC	30 - 150 %
% TCMX	60			%	2	07/24/19	SC	30 - 150 %
% TCMX (Confirmation)	62			%	2	07/24/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.5		ug/Kg	2	07/25/19	AW	SW8081B
4,4' -DDE	ND	2.5		ug/Kg	2	07/25/19	AW	SW8081B
4,4' -DDT	ND	2.5		ug/Kg	2	07/25/19	AW	SW8081B
a-BHC	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
a-Chlordane	ND	4.2		ug/Kg	2	07/25/19	AW	SW8081B
Aldrin	ND	4.2		ug/Kg	2	07/25/19	AW	SW8081B
b-BHC	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
Chlordane	ND	42		ug/Kg	2	07/25/19	AW	SW8081B
d-BHC	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
Dieldrin	ND	4.2		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan I	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan II	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan sulfate	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
Endrin	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
Endrin aldehyde	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
Endrin ketone	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
g-BHC	ND	1.7		ug/Kg	2	07/25/19	AW	SW8081B
g-Chlordane	ND	4.2		ug/Kg	2	07/25/19	AW	SW8081B
Heptachlor	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
Heptachlor epoxide	ND	8.4		ug/Kg	2	07/25/19	AW	SW8081B
Methoxychlor	ND	42		ug/Kg	2	07/25/19	AW	SW8081B
Toxaphene	ND	170		ug/Kg	2	07/25/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	42			%	2	07/25/19	AW	30 - 150 %
% DCBP (Confirmation)	35			%	2	07/25/19	AW	30 - 150 %
% TCMX	46			%	2	07/25/19	AW	30 - 150 %
% TCMX (Confirmation)	43			%	2	07/25/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	8.0	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	20	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	100	21	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	100	21	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	ND	50	21	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	41	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Bromoform	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	21	8.3	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	120	21	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	41	4.1	ug/Kg	1	07/24/19	JLI	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	21	21	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	41	10	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	41	10	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	21	4.1	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	21	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	20	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	94			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	99			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100		ug/kg	1	07/24/19	PS	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/24/19	PS	70 - 130 %
% Bromofluorobenzene	94			%	1	07/24/19	PS	70 - 130 %
% Dibromofluoromethane	99			%	1	07/24/19	PS	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	PS	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	83		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	21		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	83		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	410		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	290	150	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	290	130	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	290	230	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	210	130	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	210	150	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	290	100	ug/Kg	1	07/25/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	290	290	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	210	160	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	210	130	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	290	190	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	290	290	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	290	260	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	290	160	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	210	200	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	410	830	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	250	83	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	290	150	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	330	190	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	290	140	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	410	140	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	410	190	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	290	130	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	290	130	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	330	330	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	ND	290	140	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	ND	290	140	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	410	240	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	ND	210	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	ND	290	140	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	ND	290	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	ND	290	140	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	2100	830	ug/Kg	1	07/25/19	WB	SW8270D
Benzyl butyl phthalate	ND	290	110	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	290	110	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	210	110	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	290	110	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	210	170	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	ND	290	140	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	210	130	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	290	130	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	290	130	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	290	110	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	290	110	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	ND	290	130	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	290	140	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	210	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	290	150	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	290	130	ug/Kg	1	07/25/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	210	120	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	140	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	210	120	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	210	140	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	130	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	290	160	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	290	150	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	250	160	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	ND	290	120	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	290	130	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	ND	290	140	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	290	100	ug/Kg	1	07/25/19	WB	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	71			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	53			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	55			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	53			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	59			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	58			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

Client ID: SB2 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:**Semi-Volatile Comment:**

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:

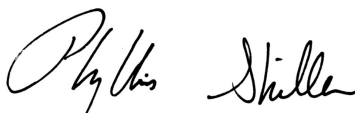
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

12:11
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62911

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB3 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	7350	34		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	3.11	0.68		mg/Kg	1	07/26/19	EK	SW6010D
Barium	112	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.36	0.27		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	13400	34		mg/Kg	10	07/26/19	EK	SW6010D
Cadmium	< 0.34	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	5.98	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	14.5	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Copper	19.2	0.7		mg/kg	1	07/26/19	EK	SW6010D
Iron	15800	34		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	0.07	0.03		mg/Kg	2	07/24/19	RS	SW7471B
Potassium	1310	7		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	2510	3.4		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	300	3.4		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	102	7		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	11.1	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Lead	43.0	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 3.4	3.4		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	20.3	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	59.5	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	94			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/EES	SW3545A
Mercury Digestion	Completed					07/24/19	I/I	SW7471B
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	70	70	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1221	ND	70	70	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1232	ND	70	70	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1242	ND	70	70	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1248	ND	70	70	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1254	ND	70	70	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1260	ND	70	70	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1262	ND	70	70	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1268	ND	70	70	ug/Kg	2	07/26/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	35			%	2	07/26/19	SC	30 - 150 %
% DCBP (Confirmation)	35			%	2	07/26/19	SC	30 - 150 %
% TCMX	30			%	2	07/26/19	SC	30 - 150 %
% TCMX (Confirmation)	29			%	2	07/26/19	SC	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	23	4.7	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	23	4.7	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	7.9	JS 23	4.7	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	9.4	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.7	1.9	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	28	4.7	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.4	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Methylene chloride	ND	4.7	4.7	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.4	2.3	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.4	2.3	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.7	0.94	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.7	0.47	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	102			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	95			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	97			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	70		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	102			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	95			%	1	07/24/19	JLI	70 - 130 %

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	97			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	19		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.7		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	19		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	94		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
1,2-Dichlorobenzene	ND	240	99	ug/Kg	1	07/24/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	07/24/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	07/24/19	WB	SW8270D
2,4-Dimethylphenol	ND	240	87	ug/Kg	1	07/24/19	WB	SW8270D
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	07/24/19	WB	SW8270D
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	07/24/19	WB	SW8270D
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
2-Chloronaphthalene	ND	240	99	ug/Kg	1	07/24/19	WB	SW8270D
2-Chlorophenol	ND	240	99	ug/Kg	1	07/24/19	WB	SW8270D
2-Methylnaphthalene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	07/24/19	WB	SW8270D
2-Nitroaniline	ND	240	240	ug/Kg	1	07/24/19	WB	SW8270D
2-Nitrophenol	ND	240	220	ug/Kg	1	07/24/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	07/24/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	170	170	ug/Kg	1	07/24/19	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	07/24/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	07/24/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	07/24/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	07/24/19	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	07/24/19	WB	SW8270D
Acenaphthene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Acenaphthylene	ND	240	98	ug/Kg	1	07/24/19	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	07/24/19	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Benz(a)anthracene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	07/24/19	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Benzo(k)fluoranthene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
Benzoic acid	ND	1700	700	ug/Kg	1	07/24/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	240	90	ug/Kg	1	07/24/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	97	ug/Kg	1	07/24/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	94	ug/Kg	1	07/24/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	97	ug/Kg	1	07/24/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	07/24/19	WB	SW8270D
Chrysene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Di-n-butylphthalate	ND	240	93	ug/Kg	1	07/24/19	WB	SW8270D
Di-n-octylphthalate	ND	240	90	ug/Kg	1	07/24/19	WB	SW8270D
Fluoranthene	160	J 240	110	ug/Kg	1	07/24/19	WB	SW8270D
Fluorene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	07/24/19	WB	SW8270D
Hexachlorobutadiene	ND	240	130	ug/Kg	1	07/24/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	07/24/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
Isophorone	ND	170	98	ug/Kg	1	07/24/19	WB	SW8270D
Naphthalene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	07/24/19	WB	SW8270D
N-Nitrosodimethylamine	ND	240	99	ug/Kg	1	07/24/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	07/24/19	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	07/24/19	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	07/24/19	WB	SW8270D
Phenanthrene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
Phenol	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Pyrene	150	J 240	120	ug/Kg	1	07/24/19	WB	SW8270D
Pyridine	ND	240	86	ug/Kg	1	07/24/19	WB	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	83			%	1	07/24/19	WB	30 - 130 %
% 2-Fluorobiphenyl	67			%	1	07/24/19	WB	30 - 130 %
% 2-Fluorophenol	60			%	1	07/24/19	WB	30 - 130 %
% Nitrobenzene-d5	70			%	1	07/24/19	WB	30 - 130 %
% Phenol-d5	68			%	1	07/24/19	WB	30 - 130 %
% Terphenyl-d14	68			%	1	07/24/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

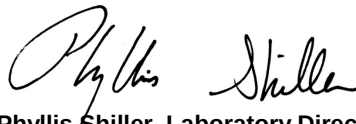
Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

12:20
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62912

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB3 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	5490	36		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	2.73	0.71		mg/Kg	1	07/26/19	EK	SW6010D
Barium	27.9	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	< 0.29	0.29		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	1130	36		mg/Kg	10	07/26/19	EK	SW6010D
Cadmium	< 0.36	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	4.70	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	9.78	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Copper	8.7	0.7		mg/kg	1	07/26/19	EK	SW6010D
Iron	12700	36		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	07/24/19	RS	SW7471B
Potassium	846	7		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	2260	3.6		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	256	3.6		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	72	7		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	10.0	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Lead	3.6	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 3.6	3.6		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	13.4	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	25.7	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	96			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for Pesticides	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	I/I	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1221	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1232	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1242	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1248	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1254	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1260	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1262	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1268	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	81			%	2	07/25/19	SC	30 - 150 %
% DCBP (Confirmation)	82			%	2	07/25/19	SC	30 - 150 %
% TCMX	80			%	2	07/25/19	SC	30 - 150 %
% TCMX (Confirmation)	81			%	2	07/25/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.1		ug/Kg	2	07/25/19	AW	SW8081B
4,4' -DDE	ND	2.1		ug/Kg	2	07/25/19	AW	SW8081B
4,4' -DDT	ND	2.1		ug/Kg	2	07/25/19	AW	SW8081B
a-BHC	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
a-Chlordane	ND	3.4		ug/Kg	2	07/25/19	AW	SW8081B
Aldrin	ND	3.4		ug/Kg	2	07/25/19	AW	SW8081B
b-BHC	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
Chlordane	ND	34		ug/Kg	2	07/25/19	AW	SW8081B
d-BHC	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
Dieldrin	ND	3.4		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan I	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan II	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan sulfate	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
Endrin	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
Endrin aldehyde	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
Endrin ketone	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
g-BHC	ND	1.4		ug/Kg	2	07/25/19	AW	SW8081B
g-Chlordane	ND	3.4		ug/Kg	2	07/25/19	AW	SW8081B
Heptachlor	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
Heptachlor epoxide	ND	6.9		ug/Kg	2	07/25/19	AW	SW8081B
Methoxychlor	ND	34		ug/Kg	2	07/25/19	AW	SW8081B
Toxaphene	ND	140		ug/Kg	2	07/25/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	86			%	2	07/25/19	AW	30 - 150 %
% DCBP (Confirmation)	66			%	2	07/25/19	AW	30 - 150 %
% TCMX	76			%	2	07/25/19	AW	30 - 150 %
% TCMX (Confirmation)	67			%	2	07/25/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	27	5.3	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	5.3	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	11	JS 27	5.3	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	11	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Bromoform	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	5.3	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	5.3	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	07/24/19	JLI	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	5.3	5.3	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	2.7	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	2.7	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	1.1	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	5.3	0.53	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	96			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	97			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	80		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	96			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	97			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	21		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	5.3		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	21		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	110		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	240	85	ug/Kg	1	07/25/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	170	130	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	240	220	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	340	680	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	68	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	270	160	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	340	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	340	150	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	240	96	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	270	270	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	340	200	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1700	680	ug/Kg	1	07/25/19	WB	SW8270D
Benzyl butyl phthalate	ND	240	88	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	95	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	92	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	95	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	99	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	240	91	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	240	88	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	170	100	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	170	96	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	240	99	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	240	84	ug/Kg	1	07/25/19	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	74			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	69			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	67			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	75			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	74			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	63			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

1

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

11:15
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62913

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB4 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	5920	36		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	1.68	0.72		mg/Kg	1	07/26/19	EK	SW6010D
Barium	43.9	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.34	0.29		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	1030	3.6		mg/Kg	1	07/26/19	EK	SW6010D
Cadmium	< 0.36	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	7.82	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	12.6	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Copper	16.2	0.7		mg/kg	1	07/26/19	EK	SW6010D
Iron	16300	36		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	07/24/19	RS	SW7471B
Potassium	1610	7		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	2600	3.6		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	402	3.6		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	104	7		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	10.6	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Lead	7.9	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 3.6	3.6		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	24.3	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	68.7	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	95			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	I/I	SW7471B
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	70	70	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1221	ND	70	70	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1232	ND	70	70	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1242	ND	70	70	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1248	ND	70	70	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1254	ND	70	70	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1260	ND	70	70	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1262	ND	70	70	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1268	ND	70	70	ug/Kg	2	07/25/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	73			%	2	07/25/19	SC	30 - 150 %
% DCBP (Confirmation)	76			%	2	07/25/19	SC	30 - 150 %
% TCMX	71			%	2	07/25/19	SC	30 - 150 %
% TCMX (Confirmation)	71			%	2	07/25/19	SC	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
1,1,1-Trichloroethane	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
1,1,2-Trichloroethane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
1,1-Dichloroethane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
1,1-Dichloroethene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,1-Dichloropropene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
1,2,3-Trichloropropane	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
1,2-Dibromoethane	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,2-Dichlorobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,2-Dichloroethane	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,2-Dichloropropane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,3-Dichlorobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
1,3-Dichloropropane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
1,4-Dichlorobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
2,2-Dichloropropane	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
2-Chlorotoluene	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
2-Hexanone	ND	26	5.3	ug/Kg	1	07/24/19	PS	SW8260C
2-Isopropyltoluene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
4-Chlorotoluene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
4-Methyl-2-pentanone	ND	26	5.3	ug/Kg	1	07/24/19	PS	SW8260C
Acetone	8.4	JS 26	5.3	ug/Kg	1	07/24/19	PS	SW8260C
Acrylonitrile	ND	11	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Benzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Bromobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Bromochloromethane	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Bromodichloromethane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Bromomethane	ND	5.3	2.1	ug/Kg	1	07/24/19	PS	SW8260C
Carbon Disulfide	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Carbon tetrachloride	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Chlorobenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Chloroethane	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Chloroform	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Chloromethane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
cis-1,2-Dichloroethene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
cis-1,3-Dichloropropene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Dibromochloromethane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Dibromomethane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Dichlorodifluoromethane	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Ethylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Hexachlorobutadiene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Isopropylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
m&p-Xylene	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Methyl Ethyl Ketone	ND	32	5.3	ug/Kg	1	07/24/19	PS	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Methylene chloride	ND	5.3	5.3	ug/Kg	1	07/24/19	PS	SW8260C
Naphthalene	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
n-Butylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
n-Propylbenzene	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
o-Xylene	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
p-Isopropyltoluene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
sec-Butylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Styrene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
tert-Butylbenzene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Tetrachloroethene	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Tetrahydrofuran (THF)	ND	11	11	ug/Kg	1	07/24/19	PS	SW8260C
Toluene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
trans-1,2-Dichloroethene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
trans-1,3-Dichloropropene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
trans-1,4-dichloro-2-butene	ND	11	2.6	ug/Kg	1	07/24/19	PS	SW8260C
Trichloroethene	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Trichlorofluoromethane	ND	5.3	1.1	ug/Kg	1	07/24/19	PS	SW8260C
Trichlorotrifluoroethane	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
Vinyl chloride	ND	5.3	0.53	ug/Kg	1	07/24/19	PS	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/24/19	PS	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	PS	70 - 130 %
% Dibromofluoromethane	99			%	1	07/24/19	PS	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	PS	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	79		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	99			%	1	07/24/19	JLI	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	21		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	5.3		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	21		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	110		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	240	96	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	240	84	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	170	130	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	240	220	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	340	680	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	200	68	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	270	160	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	340	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	340	150	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	240	95	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	270	270	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	340	200	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1700	680	ug/Kg	1	07/25/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	240	88	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	94	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	92	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	95	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	240	99	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	240	91	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	240	88	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	170	99	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	170	95	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	240	96	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	200	130	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	240	84	ug/Kg	1	07/25/19	WB	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	68			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	61			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	56			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	65			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	63			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	59			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

1

Client ID: SB4 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:**Semi-Volatile Comment:**

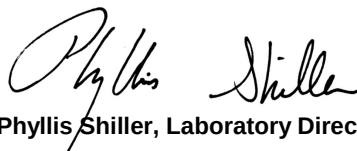
Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

11:25
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62914

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB4 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	11300	38		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	3.45	0.76		mg/Kg	1	07/26/19	EK	SW6010D
Barium	55.3	0.8		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.47	0.31		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	1740	3.8		mg/Kg	1	07/26/19	EK	SW6010D
Cadmium	< 0.38	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	7.76	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	13.9	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Copper	10.1	0.8		mg/kg	1	07/26/19	EK	SW6010D
Iron	16400	38		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	07/24/19	RS	SW7471B
Potassium	872	8		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	2620	3.8		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	390	3.8		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	104	8		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	13.6	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Lead	9.2	0.8		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 3.8	3.8		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.5	1.5		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.5	1.5		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	17.9	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	81.5	0.8		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	86			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for Pesticides	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	I/I	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	77	77	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1221	ND	77	77	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1232	ND	77	77	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1242	ND	77	77	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1248	ND	77	77	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1254	ND	77	77	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1260	ND	77	77	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1262	ND	77	77	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1268	ND	77	77	ug/Kg	2	07/25/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	55			%	2	07/25/19	SC	30 - 150 %
% DCBP (Confirmation)	56			%	2	07/25/19	SC	30 - 150 %
% TCMX	55			%	2	07/25/19	SC	30 - 150 %
% TCMX (Confirmation)	55			%	2	07/25/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.3		ug/Kg	2	07/25/19	AW	SW8081B
4,4' -DDE	ND	2.3		ug/Kg	2	07/25/19	AW	SW8081B
4,4' -DDT	ND	2.3		ug/Kg	2	07/25/19	AW	SW8081B
a-BHC	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
a-Chlordane	ND	3.9		ug/Kg	2	07/25/19	AW	SW8081B
Aldrin	ND	3.9		ug/Kg	2	07/25/19	AW	SW8081B
b-BHC	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
Chlordane	ND	39		ug/Kg	2	07/25/19	AW	SW8081B
d-BHC	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
Dieldrin	ND	3.9		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan I	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan II	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan sulfate	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
Endrin	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
Endrin aldehyde	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
Endrin ketone	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
g-BHC	ND	1.5		ug/Kg	2	07/25/19	AW	SW8081B
g-Chlordane	ND	3.9		ug/Kg	2	07/25/19	AW	SW8081B
Heptachlor	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
Heptachlor epoxide	ND	7.7		ug/Kg	2	07/25/19	AW	SW8081B
Methoxychlor	ND	39		ug/Kg	2	07/25/19	AW	SW8081B
Toxaphene	ND	150		ug/Kg	2	07/25/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	45			%	2	07/25/19	AW	30 - 150 %
% DCBP (Confirmation)	40			%	2	07/25/19	AW	30 - 150 %
% TCMX	42			%	2	07/25/19	AW	30 - 150 %
% TCMX (Confirmation)	45			%	2	07/25/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	0.58	J 4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	23	4.6	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	23	4.6	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	ND	23	4.6	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	9.2	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Bromoform	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.6	1.8	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	28	4.6	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.2	0.92	ug/Kg	1	07/24/19	JLI	SW8260C

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	4.6	4.6	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.2	2.3	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.2	2.3	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.6	0.92	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.6	0.46	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	99			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	88			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	97			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	69		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	99			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	88			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	97			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	18		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.6		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	18		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	92		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	210	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	260	94	ug/Kg	1	07/25/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	260	260	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	180	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	260	260	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	260	240	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	150	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	380	750	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	230	75	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	300	180	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	380	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	380	170	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	300	300	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	380	220	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1900	750	ug/Kg	1	07/25/19	WB	SW8270D
Benzyl butyl phthalate	ND	260	97	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	190	150	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	260	97	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	260	140	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	230	140	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	260	93	ug/Kg	1	07/25/19	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	71			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	58			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	58			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	61			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	64			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	64			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

1

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

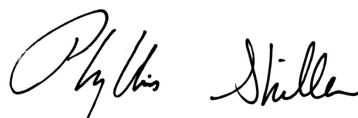
Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

7:53
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62915

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB6 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	6550	33		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	1.57	0.65		mg/Kg	1	07/26/19	EK	SW6010D
Barium	38.5	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.42	0.26		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	1160	3.3		mg/Kg	1	07/26/19	EK	SW6010D
Cadmium	< 0.33	0.33		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	6.98	0.33		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	16.6	0.33		mg/Kg	1	07/26/19	EK	SW6010D
Copper	22.7	0.7		mg/kg	1	07/26/19	EK	SW6010D
Iron	21900	33		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	07/24/19	RS	SW7471B
Potassium	1650	7		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	2780	3.3		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	415	3.3		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	232	7		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	13.1	0.33		mg/Kg	1	07/26/19	EK	SW6010D
Lead	5.8	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 3.3	3.3		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.3	1.3		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.3	1.3		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	23.1	0.33		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	37.6	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	97			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/LV	SW3545A
Mercury Digestion	Completed					07/24/19	I/I	SW7471B
Total Metals Digest	Completed					07/23/19	SI/AG/T	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1221	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1232	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1242	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1248	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1254	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1260	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1262	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1268	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	74			%	2	07/25/19	SC	30 - 150 %
% DCBP (Confirmation)	73			%	2	07/25/19	SC	30 - 150 %
% TCMX	65			%	2	07/25/19	SC	30 - 150 %
% TCMX (Confirmation)	66			%	2	07/25/19	SC	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	22	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	21	JS 22	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	8.9	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.4	1.8	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	27	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.9	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Methylene chloride	ND	4.4	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.9	2.2	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.9	2.2	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.4	0.89	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	66		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	07/24/19	JLI	70 - 130 %

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	18		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.4		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	18		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	89		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
1,2-Dichlorobenzene	ND	240	95	ug/Kg	1	07/24/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	07/24/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	07/24/19	WB	SW8270D
2,4-Dimethylphenol	ND	240	84	ug/Kg	1	07/24/19	WB	SW8270D
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	07/24/19	WB	SW8270D
2,4-Dinitrotoluene	ND	170	130	ug/Kg	1	07/24/19	WB	SW8270D
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
2-Chloronaphthalene	ND	240	96	ug/Kg	1	07/24/19	WB	SW8270D
2-Chlorophenol	ND	240	96	ug/Kg	1	07/24/19	WB	SW8270D
2-Methylnaphthalene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	07/24/19	WB	SW8270D
2-Nitroaniline	ND	240	240	ug/Kg	1	07/24/19	WB	SW8270D
2-Nitrophenol	ND	240	210	ug/Kg	1	07/24/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	240	130	ug/Kg	1	07/24/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	07/24/19	WB	SW8270D
3-Nitroaniline	ND	340	680	ug/Kg	1	07/24/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	200	68	ug/Kg	1	07/24/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	99	ug/Kg	1	07/24/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
4-Chloroaniline	ND	270	160	ug/Kg	1	07/24/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
4-Nitroaniline	ND	340	110	ug/Kg	1	07/24/19	WB	SW8270D
4-Nitrophenol	ND	340	150	ug/Kg	1	07/24/19	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
Acenaphthylene	ND	240	95	ug/Kg	1	07/24/19	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Aniline	ND	270	270	ug/Kg	1	07/24/19	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Benz(a)anthracene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Benzidine	ND	340	200	ug/Kg	1	07/24/19	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Benzoic acid	ND	1700	680	ug/Kg	1	07/24/19	WB	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	240	87	ug/Kg	1	07/24/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	93	ug/Kg	1	07/24/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	91	ug/Kg	1	07/24/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	94	ug/Kg	1	07/24/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	97	ug/Kg	1	07/24/19	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	07/24/19	WB	SW8270D
Chrysene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
Dibenzofuran	ND	240	99	ug/Kg	1	07/24/19	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Dimethylphthalate	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
Di-n-butylphthalate	ND	240	90	ug/Kg	1	07/24/19	WB	SW8270D
Di-n-octylphthalate	ND	240	87	ug/Kg	1	07/24/19	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Hexachlorobenzene	ND	170	99	ug/Kg	1	07/24/19	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	100	ug/Kg	1	07/24/19	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	07/24/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Isophorone	ND	170	95	ug/Kg	1	07/24/19	WB	SW8270D
Naphthalene	ND	240	97	ug/Kg	1	07/24/19	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	07/24/19	WB	SW8270D
N-Nitrosodimethylamine	ND	240	95	ug/Kg	1	07/24/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	07/24/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	07/24/19	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	07/24/19	WB	SW8270D
Pentachlorophenol	ND	200	130	ug/Kg	1	07/24/19	WB	SW8270D
Phenanthrene	ND	240	97	ug/Kg	1	07/24/19	WB	SW8270D
Phenol	ND	240	110	ug/Kg	1	07/24/19	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	07/24/19	WB	SW8270D
Pyridine	ND	240	83	ug/Kg	1	07/24/19	WB	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	78			%	1	07/24/19	WB	30 - 130 %
% 2-Fluorobiphenyl	70			%	1	07/24/19	WB	30 - 130 %
% 2-Fluorophenol	62			%	1	07/24/19	WB	30 - 130 %
% Nitrobenzene-d5	73			%	1	07/24/19	WB	30 - 130 %
% Phenol-d5	71			%	1	07/24/19	WB	30 - 130 %
% Terphenyl-d14	65			%	1	07/24/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

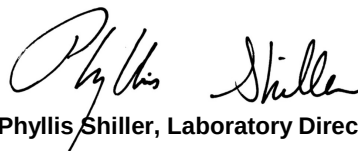
Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

8:01
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62916

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB6 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.31	0.31		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	6410	31		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	1.94	0.63		mg/Kg	1	07/26/19	EK	SW6010D
Barium	47.0	0.6		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.37	0.25		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	1290	3.1		mg/Kg	1	07/26/19	EK	SW6010D
Cadmium	< 0.31	0.31		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	6.00	0.31		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	18.9	0.31		mg/Kg	1	07/26/19	EK	SW6010D
Copper	20.7	0.6		mg/kg	1	07/26/19	EK	SW6010D
Iron	19400	31		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	07/24/19	RS	SW7471B
Potassium	1900	6		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	2880	3.1		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	385	3.1		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	315	6		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	11.5	0.31		mg/Kg	1	07/26/19	EK	SW6010D
Lead	5.4	0.6		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 3.1	3.1		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.3	1.3		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.3	1.3		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	22.5	0.31		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	37.5	0.6		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	95			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for Pesticides	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	LS/LS	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1221	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1232	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1242	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1248	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1254	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1260	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1262	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1268	ND	68	68	ug/Kg	2	07/25/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	62			%	2	07/25/19	SC	30 - 150 %
% DCBP (Confirmation)	64			%	2	07/25/19	SC	30 - 150 %
% TCMX	63			%	2	07/25/19	SC	30 - 150 %
% TCMX (Confirmation)	64			%	2	07/25/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.0		ug/Kg	2	07/25/19	AW	SW8081B
4,4' -DDE	ND	2.0		ug/Kg	2	07/25/19	AW	SW8081B
4,4' -DDT	ND	2.0		ug/Kg	2	07/25/19	AW	SW8081B
a-BHC	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
a-Chlordane	ND	3.4		ug/Kg	2	07/25/19	AW	SW8081B
Aldrin	ND	3.4		ug/Kg	2	07/25/19	AW	SW8081B
b-BHC	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
Chlordane	ND	34		ug/Kg	2	07/25/19	AW	SW8081B
d-BHC	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
Dieldrin	ND	3.4		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan I	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan II	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
Endosulfan sulfate	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
Endrin	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
Endrin aldehyde	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
Endrin ketone	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
g-BHC	ND	1.4		ug/Kg	2	07/25/19	AW	SW8081B
g-Chlordane	ND	3.4		ug/Kg	2	07/25/19	AW	SW8081B
Heptachlor	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
Heptachlor epoxide	ND	6.8		ug/Kg	2	07/25/19	AW	SW8081B
Methoxychlor	ND	34		ug/Kg	2	07/25/19	AW	SW8081B
Toxaphene	ND	140		ug/Kg	2	07/25/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	55			%	2	07/25/19	AW	30 - 150 %
% DCBP (Confirmation)	52			%	2	07/25/19	AW	30 - 150 %
% TCMX	51			%	2	07/25/19	AW	30 - 150 %
% TCMX (Confirmation)	53			%	2	07/25/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	20	4.0	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	20	4.0	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	6.4	JS 20	4.0	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	8.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Bromoform	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.0	1.6	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	24	4.0	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	4.0	4.0	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.0	2.0	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.0	2.0	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.0	0.80	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.0	0.40	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	97			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	60		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	97			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	16		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.0		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	16		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	80		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	240	87	ug/Kg	1	07/25/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	240	99	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	240	99	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	240	220	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1700	700	ug/Kg	1	07/25/19	WB	SW8270D
Benzyl butyl phthalate	ND	240	90	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	96	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	94	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	240	93	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	240	90	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	170	100	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	170	98	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	240	86	ug/Kg	1	07/25/19	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	64			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	60			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	54			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	63			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	62			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	59			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

1

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

10:41
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62917

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB7 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	10900	35		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	13.8	0.70		mg/Kg	1	07/26/19	EK	SW6010D
Barium	343	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.50	0.28		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	8900	3.5		mg/Kg	1	07/26/19	EK	SW6010D
Cadmium	1.92	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	9.10	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	35.5	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Copper	98.7	0.7		mg/kg	1	07/26/19	EK	SW6010D
Iron	29900	35		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	0.84	0.07		mg/Kg	5	07/24/19	RS	SW7471B
Potassium	1670	7		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	3810	3.5		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	260	3.5		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	300	7		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	26.1	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Lead	433	7.0		mg/Kg	10	07/26/19	EK	SW6010D
Antimony	< 3.5	3.5		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	35.5	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	460	7.0		mg/Kg	10	07/26/19	EK	SW6010D
Percent Solid	91			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	LS/LS	SW7471B
Total Metals Digest	Completed					07/23/19	SI/AG/T	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	73	73	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1221	ND	73	73	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1232	ND	73	73	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1242	ND	73	73	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1248	ND	73	73	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1254	ND	73	73	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1260	ND	73	73	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1262	ND	73	73	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1268	ND	73	73	ug/Kg	2	07/26/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	72			%	2	07/26/19	SC	30 - 150 %
% DCBP (Confirmation)	66			%	2	07/26/19	SC	30 - 150 %
% TCMX	61			%	2	07/26/19	SC	30 - 150 %
% TCMX (Confirmation)	74			%	2	07/26/19	SC	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	34	6.8	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	34	6.8	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	7.1	JS 34	6.8	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	14	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	1.4	J 6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	6.8	2.7	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	41	6.8	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Methylene chloride	ND	6.8	6.8	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	3.4	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	0.68	J 6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	3.4	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	0.74	J 6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	6.8	1.4	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	6.8	0.68	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	96			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	101			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	96			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	101			%	1	07/24/19	JLI	70 - 130 %

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	27		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	6.8		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	27		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	140		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	260	90	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrophenol	ND	260	260	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	180	120	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	260	260	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	260	230	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	140	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	360	730	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	220	73	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	360	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	360	160	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	220	J 260	110	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	290	290	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	360	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	790	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	360	210	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	740	180	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	680	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	470	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	680	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1800	730	ug/Kg	1	07/25/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	260	94	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	98	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	33000	2600	1000	ug/Kg	10	07/25/19	WB	SW8270D
Carbazole	ND	180	150	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	810	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	130	J 180	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	170	J 260	110	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	260	97	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	260	94	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	1700	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	190	J 260	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	180	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	550	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	180	100	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	110	J 260	100	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	180	130	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	1300	260	100	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	260	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	1600	260	130	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	260	90	ug/Kg	1	07/25/19	WB	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	72			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	65			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	62			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	70			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	69			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	60			%	1	07/25/19	WB	30 - 130 %
% 2,4,6-Tribromophenol (10x)	Diluted Out			%	10	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out			%	10	07/25/19	WB	30 - 130 %
% 2-Fluorophenol (10x)	Diluted Out			%	10	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out			%	10	07/25/19	WB	30 - 130 %
% Phenol-d5 (10x)	Diluted Out			%	10	07/25/19	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out			%	10	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

Client ID: SB7 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:**Semi-Volatile Comment:**

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

10:55
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62918

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB7 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	1140	38		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	3.75	0.76		mg/Kg	1	07/26/19	EK	SW6010D
Barium	27.1	0.8		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	< 0.31	0.31		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	1110	3.8		mg/Kg	1	07/26/19	EK	SW6010D
Cadmium	< 0.38	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	1.40	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	3.55	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Copper	2.8	0.8		mg/kg	1	07/26/19	EK	SW6010D
Iron	17700	38		mg/Kg	10	07/26/19	EK	SW6010D
Mercury	< 0.07	0.07		mg/Kg	5	07/24/19	RS	SW7471B
Potassium	2530	8		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	208	3.8		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	12.9	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Sodium	573	8		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	0.97	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Lead	9.9	0.8		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 3.8	3.8		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.5	1.5		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.5	1.5		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	6.85	0.38		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	6.1	0.8		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	86			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/E	SW3545A
Soil Extraction for Pesticides	Completed					07/24/19	MM/E	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	LS/LS	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	76	76	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1221	ND	76	76	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1232	ND	76	76	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1242	ND	76	76	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1248	ND	76	76	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1254	ND	76	76	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1260	ND	76	76	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1262	ND	76	76	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1268	ND	76	76	ug/Kg	2	07/26/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	60			%	2	07/26/19	SC	30 - 150 %
% DCBP (Confirmation)	59			%	2	07/26/19	SC	30 - 150 %
% TCMX	57			%	2	07/26/19	SC	30 - 150 %
% TCMX (Confirmation)	55			%	2	07/26/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.3		ug/Kg	2	07/26/19	AW	SW8081B
4,4' -DDE	ND	2.3		ug/Kg	2	07/26/19	AW	SW8081B
4,4' -DDT	ND	2.3		ug/Kg	2	07/26/19	AW	SW8081B
a-BHC	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
a-Chlordane	ND	3.8		ug/Kg	2	07/26/19	AW	SW8081B
Aldrin	ND	3.8		ug/Kg	2	07/26/19	AW	SW8081B
b-BHC	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
Chlordane	ND	38		ug/Kg	2	07/26/19	AW	SW8081B
d-BHC	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
Dieldrin	ND	3.8		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan I	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan II	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan sulfate	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
Endrin	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
Endrin aldehyde	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
Endrin ketone	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
g-BHC	ND	1.5		ug/Kg	2	07/26/19	AW	SW8081B
g-Chlordane	ND	3.8		ug/Kg	2	07/26/19	AW	SW8081B
Heptachlor	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
Heptachlor epoxide	ND	7.6		ug/Kg	2	07/26/19	AW	SW8081B
Methoxychlor	ND	38		ug/Kg	2	07/26/19	AW	SW8081B
Toxaphene	ND	150		ug/Kg	2	07/26/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	53			%	2	07/26/19	AW	30 - 150 %
% DCBP (Confirmation)	53			%	2	07/26/19	AW	30 - 150 %
% TCMX	48			%	2	07/26/19	AW	30 - 150 %
% TCMX (Confirmation)	53			%	2	07/26/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	22	4.5	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	4.5	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	ND	22	4.5	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	9.0	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Bromoform	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.5	1.8	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	27	4.5	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.0	0.90	ug/Kg	1	07/24/19	JLI	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	4.5	4.5	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.0	2.2	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.0	2.2	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.5	0.90	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.5	0.45	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	102			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	101			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	99			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	67		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	102			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	101			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	99			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	18		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.5		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	18		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	90		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	270	94	ug/Kg	1	07/25/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	270	270	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	380	760	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	230	76	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	300	180	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	380	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	380	170	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	300	300	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	380	220	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1900	760	ug/Kg	1	07/25/19	WB	SW8270D
Benzyl butyl phthalate	ND	270	98	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	190	150	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	270	98	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	230	140	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	270	94	ug/Kg	1	07/25/19	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	68			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	57			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	56			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	58			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	59			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	59			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

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1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

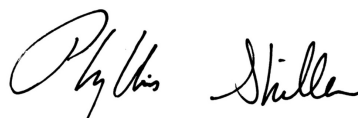
Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

8:45
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62919

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB8 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	7290	36		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	2.69	0.72		mg/Kg	1	07/26/19	EK	SW6010D
Barium	68.1	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.41	0.29		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	1310	3.6		mg/Kg	1	07/26/19	EK	SW6010D
Cadmium	< 0.36	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	7.99	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	18.2	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Copper	22.0	0.7		mg/kg	1	07/26/19	EK	SW6010D
Iron	19500	36		mg/Kg	10	07/26/19	TH	SW6010D
Mercury	0.10	0.07		mg/Kg	5	07/24/19	RS	SW7471B
Potassium	1990	7		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	3140	3.6		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	366	3.6		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	199	7		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	13.5	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Lead	73.2	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 3.6	3.6		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	24.3	0.36		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	66.7	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	95			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	LS/LS	SW7471B
Total Metals Digest	Completed					07/23/19	SI/AG/T	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1221	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1232	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1242	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1248	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1254	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1260	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1262	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1268	ND	69	69	ug/Kg	2	07/25/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	68			%	2	07/25/19	SC	30 - 150 %
% DCBP (Confirmation)	70			%	2	07/25/19	SC	30 - 150 %
% TCMX	72			%	2	07/25/19	SC	30 - 150 %
% TCMX (Confirmation)	71			%	2	07/25/19	SC	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	24	4.8	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	4.8	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	11	JS 24	4.8	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	9.7	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.8	1.9	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	29	4.8	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.7	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Methylene chloride	ND	4.8	4.8	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.7	2.4	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.7	2.4	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.8	0.97	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.8	0.48	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	99			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	73		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	99			%	1	07/24/19	JLI	70 - 130 %

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	19		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.8		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	19		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	97		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	240	85	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	240	220	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	340	690	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	69	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	340	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	340	160	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	240	96	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	170	J 240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	450	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	340	200	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	500	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	440	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	350	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	440	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1700	690	ug/Kg	1	07/25/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	240	89	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	95	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	93	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	96	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	99	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	470	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	240	92	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	240	89	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	930	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	400	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	170	96	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	240	99	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	770	240	99	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	800	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	240	85	ug/Kg	1	07/25/19	WB	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	53			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	57			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	47			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	55			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	54			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	56			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

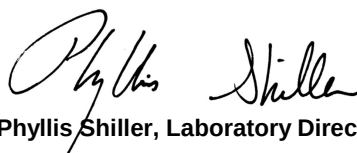
Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

8:49
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62920

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB8 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	6790	35		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	5.09	0.71		mg/Kg	1	07/26/19	EK	SW6010D
Barium	77.4	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.35	0.28		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	138000	350		mg/Kg	100	07/26/19	TH	SW6010D
Cadmium	< 0.35	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	5.16	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	24.3	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Copper	19.1	0.7		mg/kg	1	07/26/19	EK	SW6010D
Iron	13700	350		mg/Kg	100	07/26/19	TH	SW6010D
Mercury	< 0.07	0.07		mg/Kg	5	07/24/19	RS	SW7471B
Potassium	1840	7		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	5020	3.5		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	317	3.5		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	498	7		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	11.0	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Lead	11.8	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Antimony	< 3.5	3.5		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	14.9	0.35		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	34.8	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Percent Solid	92			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/E	SW3545A
Soil Extraction for Pesticides	Completed					07/24/19	MM/E	SW3545A
Soil Extraction for SVOA	Completed					07/30/19	NM/NT/LV	SW3545A
Mercury Digestion	Completed					07/24/19	LS/LS	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	72	72	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1221	ND	72	72	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1232	ND	72	72	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1242	ND	72	72	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1248	ND	72	72	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1254	ND	72	72	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1260	ND	72	72	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1262	ND	72	72	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1268	ND	72	72	ug/Kg	2	07/26/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	40			%	2	07/26/19	SC	30 - 150 %
% DCBP (Confirmation)	38			%	2	07/26/19	SC	30 - 150 %
% TCMX	36			%	2	07/26/19	SC	30 - 150 %
% TCMX (Confirmation)	33			%	2	07/26/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.2		ug/Kg	2	07/26/19	AW	SW8081B
4,4' -DDE	ND	2.2		ug/Kg	2	07/26/19	AW	SW8081B
4,4' -DDT	ND	2.2		ug/Kg	2	07/26/19	AW	SW8081B
a-BHC	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
a-Chlordane	ND	3.6		ug/Kg	2	07/26/19	AW	SW8081B
Aldrin	ND	3.6		ug/Kg	2	07/26/19	AW	SW8081B
b-BHC	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
Chlordane	ND	36		ug/Kg	2	07/26/19	AW	SW8081B
d-BHC	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
Dieldrin	ND	3.6		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan I	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan II	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan sulfate	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
Endrin	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
Endrin aldehyde	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
Endrin ketone	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
g-BHC	ND	1.4		ug/Kg	2	07/26/19	AW	SW8081B
g-Chlordane	ND	3.6		ug/Kg	2	07/26/19	AW	SW8081B
Heptachlor	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
Heptachlor epoxide	ND	7.2		ug/Kg	2	07/26/19	AW	SW8081B
Methoxychlor	ND	36		ug/Kg	2	07/26/19	AW	SW8081B
Toxaphene	ND	140		ug/Kg	2	07/26/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	40			%	2	07/26/19	AW	30 - 150 %
% DCBP (Confirmation)	38			%	2	07/26/19	AW	30 - 150 %
% TCMX	39			%	2	07/26/19	AW	30 - 150 %
% TCMX (Confirmation)	46			%	2	07/26/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	21	4.2	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	21	4.2	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	12	JS 21	4.2	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	8.5	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Bromoform	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.2	1.7	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	25	4.2	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.5	0.85	ug/Kg	1	07/24/19	JLI	SW8260C

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	4.2	4.2	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.5	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.5	2.1	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.2	0.85	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.2	0.42	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	103			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	101			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	64		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	103			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	101			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	17		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.2		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	17		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	85		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	07/31/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	07/31/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	07/31/19	WB	SW8270D
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	07/31/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	07/31/19	WB	SW8270D
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	07/31/19	WB	SW8270D
2,4-Dimethylphenol	ND	250	88	ug/Kg	1	07/31/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	07/31/19	WB	SW8270D
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	07/31/19	WB	SW8270D
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	07/31/19	WB	SW8270D
2-Chloronaphthalene	ND	250	100	ug/Kg	1	07/31/19	WB	SW8270D
2-Chlorophenol	ND	250	100	ug/Kg	1	07/31/19	WB	SW8270D
2-Methylnaphthalene	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	07/31/19	WB	SW8270D
2-Nitroaniline	ND	250	250	ug/Kg	1	07/31/19	WB	SW8270D
2-Nitrophenol	ND	250	230	ug/Kg	1	07/31/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	07/31/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	07/31/19	WB	SW8270D
3-Nitroaniline	ND	360	710	ug/Kg	1	07/31/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	71	ug/Kg	1	07/31/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	07/31/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	07/31/19	WB	SW8270D
4-Chloroaniline	ND	280	170	ug/Kg	1	07/31/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	07/31/19	WB	SW8270D
4-Nitroaniline	ND	360	120	ug/Kg	1	07/31/19	WB	SW8270D
4-Nitrophenol	ND	360	160	ug/Kg	1	07/31/19	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D
Acenaphthylene	ND	250	100	ug/Kg	1	07/31/19	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	07/31/19	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	07/31/19	WB	SW8270D
Benz(a)anthracene	220	J 250	120	ug/Kg	1	07/31/19	WB	SW8270D
Benzidine	ND	360	210	ug/Kg	1	07/31/19	WB	SW8270D
Benzo(a)pyrene	220	180	120	ug/Kg	1	07/31/19	WB	SW8270D
Benzo(b)fluoranthene	200	J 250	120	ug/Kg	1	07/31/19	WB	SW8270D
Benzo(ghi)perylene	190	J 250	120	ug/Kg	1	07/31/19	WB	SW8270D
Benzo(k)fluoranthene	190	J 250	120	ug/Kg	1	07/31/19	WB	SW8270D
Benzoic acid	ND	1800	710	ug/Kg	1	07/31/19	WB	SW8270D
Benzyl butyl phthalate	ND	250	92	ug/Kg	1	07/31/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	98	ug/Kg	1	07/31/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	96	ug/Kg	1	07/31/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	99	ug/Kg	1	07/31/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	07/31/19	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	07/31/19	WB	SW8270D
Chrysene	230	J 250	120	ug/Kg	1	07/31/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	07/31/19	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	07/31/19	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D
Di-n-butylphthalate	ND	250	95	ug/Kg	1	07/31/19	WB	SW8270D
Di-n-octylphthalate	ND	250	92	ug/Kg	1	07/31/19	WB	SW8270D
Fluoranthene	410	250	120	ug/Kg	1	07/31/19	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	07/31/19	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	07/31/19	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	07/31/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	180	110	ug/Kg	1	07/31/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	170	J 250	120	ug/Kg	1	07/31/19	WB	SW8270D
Isophorone	ND	180	100	ug/Kg	1	07/31/19	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	07/31/19	WB	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	07/31/19	WB	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	07/31/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	07/31/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	07/31/19	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	07/31/19	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	07/31/19	WB	SW8270D
Phenanthrene	340	250	100	ug/Kg	1	07/31/19	WB	SW8270D
Phenol	ND	250	110	ug/Kg	1	07/31/19	WB	SW8270D
Pyrene	360	250	120	ug/Kg	1	07/31/19	WB	SW8270D
Pyridine	ND	250	88	ug/Kg	1	07/31/19	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	<10			%	1	07/31/19	WB	30 - 130 % 3
% 2-Fluorobiphenyl	62			%	1	07/31/19	WB	30 - 130 %
% 2-Fluorophenol	<10			%	1	07/31/19	WB	30 - 130 % 3
% Nitrobenzene-d5	49			%	1	07/31/19	WB	30 - 130 %
% Phenol-d5	36			%	1	07/31/19	WB	30 - 130 %
% Terphenyl-d14	69			%	1	07/31/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A 1

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

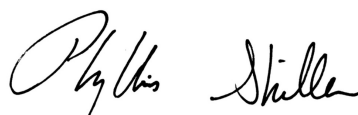
Semi-Volatile Comment:

Poor surrogate recoveries were observed. Sample was re-extracted with similar results.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

9:55
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62921

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB9 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Aluminum	8610	34		mg/Kg	10	07/26/19	EK	SW6010D
Arsenic	8.36	0.68		mg/Kg	1	07/26/19	EK	SW6010D
Barium	186	0.7		mg/Kg	1	07/26/19	EK	SW6010D
Beryllium	0.43	0.27		mg/Kg	1	07/26/19	EK	SW6010D
Calcium	47100	34		mg/Kg	10	07/26/19	TH	SW6010D
Cadmium	0.48	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Cobalt	6.01	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Chromium	14.7	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Copper	29.0	0.7		mg/kg	1	07/26/19	EK	SW6010D
Iron	12200	34		mg/Kg	10	07/26/19	TH	SW6010D
Mercury	0.18	0.07		mg/Kg	5	07/24/19	RS	SW7471B
Potassium	1540	7		mg/Kg	1	07/26/19	EK	SW6010D
Magnesium	3160	3.4		mg/Kg	1	07/26/19	EK	SW6010D
Manganese	241	3.4		mg/Kg	10	07/26/19	EK	SW6010D
Sodium	567	7		mg/Kg	1	07/26/19	EK	SW6010D
Nickel	12.5	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Lead	401	6.8		mg/Kg	10	07/26/19	EK	SW6010D
Antimony	< 3.4	3.4		mg/Kg	1	07/26/19	EK	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	07/26/19	EK	SW6010D
Vanadium	23.8	0.34		mg/Kg	1	07/26/19	EK	SW6010D
Zinc	175	6.8		mg/Kg	10	07/26/19	EK	SW6010D
Percent Solid	90			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed					07/23/19	NM/NT/V	SW3545A
Mercury Digestion	Completed					07/24/19	LS/LS	SW7471B
Total Metals Digest	Completed					07/23/19	SI/AG/T	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	72	72	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1221	ND	72	72	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1232	ND	72	72	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1242	ND	72	72	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1248	ND	72	72	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1254	ND	72	72	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1260	ND	72	72	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1262	ND	72	72	ug/Kg	2	07/25/19	SC	SW8082A
PCB-1268	ND	72	72	ug/Kg	2	07/25/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	67			%	2	07/25/19	SC	30 - 150 %
% DCBP (Confirmation)	68			%	2	07/25/19	SC	30 - 150 %
% TCMX	70			%	2	07/25/19	SC	30 - 150 %
% TCMX (Confirmation)	68			%	2	07/25/19	SC	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	24	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	7.0	JS 24	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	9.8	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C

Client ID: SB9 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.9	2.0	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	29	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.8	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Methylene chloride	ND	4.9	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.8	2.4	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.8	2.4	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	102			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	92			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	99			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	73		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	102			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	92			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	99			%	1	07/24/19	JLI	70 - 130 %

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	20		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.9		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	20		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	98		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	250	90	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	250	100	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	250	100	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	250	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	250	250	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	250	230	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	360	720	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	220	72	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	360	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	360	160	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	170	J 250	110	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	250	100	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	290	290	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	380	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	1200	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	360	210	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	1000	180	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	970	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	610	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	970	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1800	720	ug/Kg	1	07/25/19	WB	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	250	93	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	97	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	310	180	140	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	1200	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	170	J 180	120	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	110	J 250	110	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	250	96	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	250	93	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	2800	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	150	J 250	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	180	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	700	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	180	100	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	130	J 250	100	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	180	130	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	2100	250	100	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	2300	250	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	250	89	ug/Kg	1	07/25/19	WB	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	66			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	61			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	44			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	59			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	56			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	61			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

Client ID: SB9 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:**Semi-Volatile Comment:**

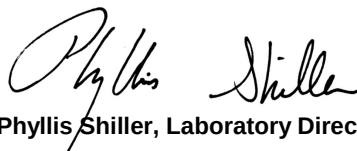
Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19
07/23/19

Time

10:05
15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62922

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SB9 (5-7)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Aluminum	9680	37		mg/Kg	10	07/25/19	TH	SW6010D
Arsenic	4.08	0.75		mg/Kg	1	07/25/19	TH	SW6010D
Barium	59.0	0.7		mg/Kg	1	07/25/19	TH	SW6010D
Beryllium	0.85	0.30		mg/Kg	1	07/25/19	TH	SW6010D
Calcium	2640	3.7		mg/Kg	1	07/25/19	TH	SW6010D
Cadmium	< 0.37	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Cobalt	6.38	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Chromium	12.8	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Copper	15.1	0.7		mg/kg	1	07/25/19	TH	SW6010D
Iron	16200	37		mg/Kg	10	07/25/19	TH	SW6010D
Mercury	< 0.07	0.07		mg/Kg	5	07/24/19	RS	SW7471B
Potassium	903	7		mg/Kg	1	07/25/19	TH	SW6010D
Magnesium	2790	3.7		mg/Kg	1	07/25/19	TH	SW6010D
Manganese	360	3.7		mg/Kg	10	07/25/19	TH	SW6010D
Sodium	211	7		mg/Kg	1	07/25/19	TH	SW6010D
Nickel	13.5	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Lead	6.9	0.7		mg/Kg	1	07/25/19	TH	SW6010D
Antimony	< 3.7	3.7		mg/Kg	1	07/25/19	TH	SW6010D
Selenium	< 1.5	1.5		mg/Kg	1	07/25/19	TH	SW6010D
Thallium	< 1.5	1.5		mg/Kg	1	07/25/19	TH	SW6010D
Vanadium	16.3	0.37		mg/Kg	1	07/25/19	EK	SW6010D
Zinc	34.3	0.7		mg/Kg	1	07/25/19	TH	SW6010D
Percent Solid	86			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/E	SW3545A
Soil Extraction for Pesticides	Completed					07/24/19	MM/E	SW3545A
Soil Extraction for SVOA	Completed					07/24/19	NM/NT/LV	SW3545A
Mercury Digestion	Completed					07/24/19	LS/LS	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	77	77	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1221	ND	77	77	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1232	ND	77	77	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1242	ND	77	77	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1248	ND	77	77	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1254	ND	77	77	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1260	ND	77	77	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1262	ND	77	77	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1268	ND	77	77	ug/Kg	2	07/26/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	63			%	2	07/26/19	SC	30 - 150 %
% DCBP (Confirmation)	61			%	2	07/26/19	SC	30 - 150 %
% TCMX	59			%	2	07/26/19	SC	30 - 150 %
% TCMX (Confirmation)	55			%	2	07/26/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.3		ug/Kg	2	07/26/19	AW	SW8081B
4,4' -DDE	ND	2.3		ug/Kg	2	07/26/19	AW	SW8081B
4,4' -DDT	ND	2.3		ug/Kg	2	07/26/19	AW	SW8081B
a-BHC	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
a-Chlordane	ND	3.8		ug/Kg	2	07/26/19	AW	SW8081B
Aldrin	ND	3.8		ug/Kg	2	07/26/19	AW	SW8081B
b-BHC	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
Chlordane	ND	38		ug/Kg	2	07/26/19	AW	SW8081B
d-BHC	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
Dieldrin	ND	3.8		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan I	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan II	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan sulfate	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
Endrin	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
Endrin aldehyde	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
Endrin ketone	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
g-BHC	ND	1.5		ug/Kg	2	07/26/19	AW	SW8081B
g-Chlordane	ND	3.8		ug/Kg	2	07/26/19	AW	SW8081B
Heptachlor	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
Heptachlor epoxide	ND	7.7		ug/Kg	2	07/26/19	AW	SW8081B
Methoxychlor	ND	38		ug/Kg	2	07/26/19	AW	SW8081B
Toxaphene	ND	150		ug/Kg	2	07/26/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	57			%	2	07/26/19	AW	30 - 150 %
% DCBP (Confirmation)	52			%	2	07/26/19	AW	30 - 150 %
% TCMX	52			%	2	07/26/19	AW	30 - 150 %
% TCMX (Confirmation)	54			%	2	07/26/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	22	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	ND	22	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	8.8	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Bromoform	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.4	1.8	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	27	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.8	0.88	ug/Kg	1	07/24/19	JLI	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	4.4	4.4	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.8	2.2	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.8	2.2	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.4	0.88	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.4	0.44	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	101			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	66		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	101			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	18		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.4		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	18		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	88		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	190	140	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	270	96	ug/Kg	1	07/25/19	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	270	270	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	390	770	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	230	77	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	390	130	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	390	170	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	310	310	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	390	230	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	ND	190	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1900	770	ug/Kg	1	07/25/19	WB	SW8270D
Benzyl butyl phthalate	ND	270	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	190	150	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	130	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	270	100	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	190	120	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	190	110	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	190	140	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	130	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	230	150	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	ND	270	110	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	270	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	ND	270	130	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	270	95	ug/Kg	1	07/25/19	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	78			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	64			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	61			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	59			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	61			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	67			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

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1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

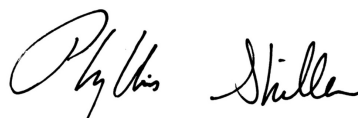
Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19

Time

15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62923

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SOIL DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Aluminum	6360	37		mg/Kg	10	07/25/19	TH	SW6010D
Arsenic	4.07	0.73		mg/Kg	1	07/25/19	TH	SW6010D
Barium	41.2	0.7		mg/Kg	1	07/25/19	TH	SW6010D
Beryllium	0.40	0.29		mg/Kg	1	07/25/19	TH	SW6010D
Calcium	851	3.7		mg/Kg	1	07/25/19	TH	SW6010D
Cadmium	< 0.37	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Cobalt	5.05	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Chromium	15.4	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Copper	21.8	0.7		mg/kg	1	07/25/19	TH	SW6010D
Iron	20200	37		mg/Kg	10	07/25/19	TH	SW6010D
Mercury	< 0.07	0.07		mg/Kg	5	07/24/19	RS	SW7471B
Potassium	1770	7		mg/Kg	1	07/25/19	TH	SW6010D
Magnesium	2780	3.7		mg/Kg	1	07/25/19	TH	SW6010D
Manganese	318	3.7		mg/Kg	10	07/25/19	TH	SW6010D
Sodium	260	7		mg/Kg	1	07/25/19	TH	SW6010D
Nickel	11.3	0.37		mg/Kg	1	07/25/19	TH	SW6010D
Lead	5.6	0.7		mg/Kg	1	07/25/19	TH	SW6010D
Antimony	< 3.7	3.7		mg/Kg	1	07/25/19	TH	SW6010D
Selenium	< 1.5	1.5		mg/Kg	1	07/25/19	TH	SW6010D
Thallium	< 1.5	1.5		mg/Kg	1	07/25/19	TH	SW6010D
Vanadium	24.4	0.37		mg/Kg	1	07/25/19	EK	SW6010D
Zinc	52.5	0.7		mg/Kg	1	07/25/19	TH	SW6010D
Percent Solid	96			%		07/23/19	ML	SW846-%Solid
Soil Extraction for PCB	Completed					07/24/19	MM/E	SW3545A
Soil Extraction for Pesticides	Completed					07/24/19	MM/E	SW3545A
Soil Extraction for SVOA	Completed					07/24/19	NM/NT/LV	SW3545A
Mercury Digestion	Completed					07/24/19	LS/LS	SW7471B

Client ID: SOIL DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					07/23/19	S/AG/T	SW3050B
<u>Polychlorinated Biphenyls</u>								
PCB-1016	ND	68	68	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1221	ND	68	68	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1232	ND	68	68	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1242	ND	68	68	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1248	ND	68	68	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1254	ND	68	68	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1260	ND	68	68	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1262	ND	68	68	ug/Kg	2	07/26/19	SC	SW8082A
PCB-1268	ND	68	68	ug/Kg	2	07/26/19	SC	SW8082A
<u>QA/QC Surrogates</u>								
% DCBP	56			%	2	07/26/19	SC	30 - 150 %
% DCBP (Confirmation)	54			%	2	07/26/19	SC	30 - 150 %
% TCMX	52			%	2	07/26/19	SC	30 - 150 %
% TCMX (Confirmation)	49			%	2	07/26/19	SC	30 - 150 %
<u>Pesticides - Soil</u>								
4,4' -DDD	ND	2.0		ug/Kg	2	07/26/19	AW	SW8081B
4,4' -DDE	ND	2.0		ug/Kg	2	07/26/19	AW	SW8081B
4,4' -DDT	ND	2.0		ug/Kg	2	07/26/19	AW	SW8081B
a-BHC	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
a-Chlordane	ND	3.4		ug/Kg	2	07/26/19	AW	SW8081B
Aldrin	ND	3.4		ug/Kg	2	07/26/19	AW	SW8081B
b-BHC	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
Chlordane	ND	34		ug/Kg	2	07/26/19	AW	SW8081B
d-BHC	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
Dieldrin	ND	3.4		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan I	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan II	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
Endosulfan sulfate	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
Endrin	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
Endrin aldehyde	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
Endrin ketone	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
g-BHC	ND	1.4		ug/Kg	2	07/26/19	AW	SW8081B
g-Chlordane	ND	3.4		ug/Kg	2	07/26/19	AW	SW8081B
Heptachlor	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
Heptachlor epoxide	ND	6.8		ug/Kg	2	07/26/19	AW	SW8081B
Methoxychlor	ND	34		ug/Kg	2	07/26/19	AW	SW8081B
Toxaphene	ND	140		ug/Kg	2	07/26/19	AW	SW8081B
<u>QA/QC Surrogates</u>								
% DCBP	50			%	2	07/26/19	AW	30 - 150 %
% DCBP (Confirmation)	45			%	2	07/26/19	AW	30 - 150 %
% TCMX	47			%	2	07/26/19	AW	30 - 150 %
% TCMX (Confirmation)	48			%	2	07/26/19	AW	30 - 150 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	24	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
Acetone	15	JS 24	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	9.8	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Bromoform	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	4.9	2.0	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	29	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.8	0.98	ug/Kg	1	07/24/19	JLI	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	4.9	4.9	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.8	2.4	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.8	2.4	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.9	0.98	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	4.9	0.49	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	97			%	1	07/24/19	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	73		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	97			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	20		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	4.9		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	20		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	98		ug/Kg	1	07/24/19	JLI	SW8260C
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	240	96	ug/Kg	1	07/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	07/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	240	85	ug/Kg	1	07/25/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	170	130	ug/Kg	1	07/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
2-Chloronaphthalene	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
2-Chlorophenol	ND	240	97	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylnaphthalene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitroaniline	ND	240	240	ug/Kg	1	07/25/19	WB	SW8270D
2-Nitrophenol	ND	240	220	ug/Kg	1	07/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	07/25/19	WB	SW8270D
3-Nitroaniline	ND	340	680	ug/Kg	1	07/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	68	ug/Kg	1	07/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
4-Chloroaniline	ND	270	160	ug/Kg	1	07/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitroaniline	ND	340	110	ug/Kg	1	07/25/19	WB	SW8270D
4-Nitrophenol	ND	340	150	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Acenaphthylene	ND	240	96	ug/Kg	1	07/25/19	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Aniline	ND	270	270	ug/Kg	1	07/25/19	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benz(a)anthracene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzidine	ND	340	200	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Benzoic acid	ND	1700	680	ug/Kg	1	07/25/19	WB	SW8270D
Benzyl butyl phthalate	ND	240	88	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	94	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	92	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	95	ug/Kg	1	07/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	07/25/19	WB	SW8270D
Chrysene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-butylphthalate	ND	240	91	ug/Kg	1	07/25/19	WB	SW8270D
Di-n-octylphthalate	ND	240	88	ug/Kg	1	07/25/19	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	100	ug/Kg	1	07/25/19	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	170	100	ug/Kg	1	07/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Isophorone	ND	170	96	ug/Kg	1	07/25/19	WB	SW8270D
Naphthalene	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	240	96	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	07/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	07/25/19	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	07/25/19	WB	SW8270D
Phenanthrene	ND	240	98	ug/Kg	1	07/25/19	WB	SW8270D
Phenol	ND	240	110	ug/Kg	1	07/25/19	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	07/25/19	WB	SW8270D
Pyridine	ND	240	84	ug/Kg	1	07/25/19	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	71			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	65			%	1	07/25/19	WB	30 - 130 %
% 2-Fluorophenol	65			%	1	07/25/19	WB	30 - 130 %
% Nitrobenzene-d5	71			%	1	07/25/19	WB	30 - 130 %
% Phenol-d5	74			%	1	07/25/19	WB	30 - 130 %
% Terphenyl-d14	63			%	1	07/25/19	WB	30 - 130 %
Field Extraction	Completed					07/22/19		SW5035A

1

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory 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

August 08, 2019

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

Sample Information

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

Custody Information

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

Date

07/22/19

Time

15:02

Laboratory Data

SDG ID: GCD62909
Phoenix ID: CD62925

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
2-Chlorotoluene	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
2-Hexanone	ND	25	5.0	ug/Kg	1	07/24/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
4-Chlorotoluene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	5.0	ug/Kg	1	07/24/19	JLI	SW8260C

Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	5.0	ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	10	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Benzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Bromobenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Bromochloromethane	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Bromodichloromethane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Bromoform	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Bromomethane	ND	5.0	2.0	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon Disulfide	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Carbon tetrachloride	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Chlorobenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroethane	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Chloroform	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Chloromethane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromochloromethane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Dibromomethane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Ethylbenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Isopropylbenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
m&p-Xylene	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	5.0	ug/Kg	1	07/24/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Methylene chloride	ND	5.0	5.0	ug/Kg	1	07/24/19	JLI	SW8260C
Naphthalene	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
n-Butylbenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
n-Propylbenzene	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
o-Xylene	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
sec-Butylbenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Styrene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
tert-Butylbenzene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrachloroethene	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Tetrahydrofuran (THF)	2.6	J 10	2.5	ug/Kg	1	07/24/19	JLI	SW8260C
Toluene	0.56	J 5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	07/24/19	JLI	SW8260C
Trichloroethene	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	1.0	ug/Kg	1	07/24/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
Vinyl chloride	ND	5.0	0.50	ug/Kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	96			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %

1

Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	75		ug/kg	1	07/24/19	JLI	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	07/24/19	JLI	70 - 130 %
% Bromofluorobenzene	96			%	1	07/24/19	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	07/24/19	JLI	70 - 130 %
% Toluene-d8	98			%	1	07/24/19	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	20		ug/Kg	1	07/24/19	JLI	SW8260C
Acrolein	ND	5.0		ug/Kg	1	07/24/19	JLI	SW8260C
Acrylonitrile	ND	20		ug/Kg	1	07/24/19	JLI	SW8260C
Tert-butyl alcohol	ND	100		ug/Kg	1	07/24/19	JLI	SW8260C
Field Extraction	Completed					07/22/19		SW5035A

1

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
 BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

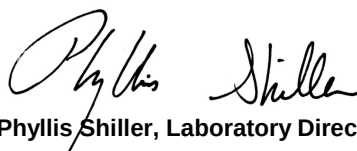
Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 08, 2019

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



QA/QC Report

August 08, 2019

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCS %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 489189 (mg/kg), QC Sample No: CD62850 2X (CD62909, CD62910, CD62911, CD62912, CD62913, CD62914, CD62915)

Mercury - Soil	BRL	0.02	<0.02	<0.02	NC	89.2	93.1	4.3	83.9	87.6	4.3	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 489190 (mg/kg), QC Sample No: CD62851 2X (CD62916, CD62917, CD62918, CD62919, CD62920, CD62921, CD62922, CD62923)

Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	93.9	88.3	6.1	99.5	94.9	4.7	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 489136 (mg/kg), QC Sample No: CD62871 (CD62909, CD62910, CD62911, CD62912, CD62913, CD62914, CD62915, CD62916, CD62917, CD62918, CD62919, CD62920, CD62921)

ICP Metals - Soil

Aluminum	BRL	4.6	7540	7470	0.90	112	112	0.0	NC			75 - 125	30
Antimony	BRL	3.0	<3.8	<3.6	NC	107	104	2.8	92.3			75 - 125	30
Arsenic	BRL	0.61	5.51	4.38	22.9	121	122	0.8	95.7			75 - 125	30
Barium	BRL	0.30	71.0	83.1	15.7	112	114	1.8	98.2			75 - 125	30
Beryllium	BRL	0.24	0.45	1.56	NC	106	109	2.8	96.4			75 - 125	30
Cadmium	BRL	0.30	<0.38	2.55	NC	105	110	4.7	96.3			75 - 125	30
Calcium	BRL	4.6	34600	33600	2.90	117	118	0.9	NC			75 - 125	30
Chromium	BRL	0.30	20.9	21.4	2.40	115	118	2.6	96.7			75 - 125	30
Cobalt	BRL	0.30	7.71	19.8	87.9	111	113	1.8	94.7			75 - 125	30 r
Copper	BRL	0.61	79.1	259	106	114	116	1.7	97.6			75 - 125	30 r
Iron	BRL	4.6	17200	17900	4.00	110	112	1.8	NC			75 - 125	30
Lead	BRL	0.30	49.5	570	168	112	112	0.0	92.4			75 - 125	30 r
Magnesium	BRL	4.6	7910	7350	7.30	123	123	0.0	NC			75 - 125	30
Manganese	BRL	0.30	289	288	0.30	109	109	0.0	NC			75 - 125	30
Nickel	BRL	0.30	17.5	45.1	88.2	111	112	0.9	97.8			75 - 125	30 r
Potassium	BRL	4.6	1640	1680	2.40	111	110	0.9	NC			75 - 125	30
Selenium	BRL	1.2	<1.5	<1.4	NC	107	105	1.9	89.3			75 - 125	30
Silver	BRL	0.30	<0.38	<0.36	NC	114	116	1.7	101			75 - 125	30
Sodium	BRL	4.6	628	830	27.7	111	111	0.0	NC			75 - 125	30
Thallium	BRL	2.7	<1.5	<3.2	NC	108	110	1.8	94.3			75 - 125	30
Vanadium	BRL	0.30	30.5	24.3	22.6	117	120	2.5	93.3			75 - 125	30
Zinc	BRL	0.61	61.3	2000	188	111	112	0.9	97.5			75 - 125	30 r

QA/QC Batch 489137 (mg/kg), QC Sample No: CD62926 (CD62922, CD62923)

ICP Metals - Soil

Aluminum	BRL	4.8	8250	8320	0.80	113	121	6.8	NC			75 - 125	30
Antimony	BRL	3.2	<4.0	<3.7	NC	98.4	106	7.4	94.6			75 - 125	30
Arsenic	BRL	0.64	10.5	11.7	10.8	113	122	7.7	97.8			75 - 125	30
Barium	BRL	0.32	115	93.5	20.6	104	113	8.3	87.0			75 - 125	30
Beryllium	BRL	0.26	0.78	0.59	NC	97.1	106	8.8	98.6			75 - 125	30

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Cadmium	BRL	0.32	0.43	0.54	NC	94.5	104	9.6	93.6			75 - 125	30	
Calcium	BRL	4.8	36500	57100	44.0	106	115	8.1	NC			75 - 125	30	r
Chromium	BRL	0.32	15.1	18.8	21.8	107	116	8.1	99.8			75 - 125	30	
Cobalt	BRL	0.32	5.73	7.10	21.4	103	110	6.6	96.4			75 - 125	30	
Copper	BRL	0.64	26.3	31.2	17.0	107	115	7.2	109			75 - 125	30	
Iron	BRL	4.8	12900	14600	12.4	114	119	4.3	NC			75 - 125	30	
Lead	BRL	0.32	93.4	113	19.0	106	112	5.5	95.3			75 - 125	30	
Magnesium	BRL	4.8	6960	15100	73.8	112	121	7.7	NC			75 - 125	30	r
Manganese	BRL	0.32	296	250	16.8	111	114	2.7	65.3			75 - 125	30	m
Nickel	BRL	0.32	16.2	22.3	31.7	101	109	7.6	95.1			75 - 125	30	r
Potassium	BRL	4.8	1480	1560	5.30	112	118	5.2	>130			75 - 125	30	m
Selenium	BRL	1.3	<1.6	<1.5	NC	96.4	103	6.6	88.7			75 - 125	30	
Silver	BRL	0.32	<0.40	<0.37	NC	107	116	8.1	102			75 - 125	30	
Sodium	BRL	4.8	470	418	11.7	109	116	6.2	128			75 - 125	30	m
Thallium	BRL	2.9	<3.6	<3.3	NC	101	111	9.4	93.5			75 - 125	30	
Vanadium	BRL	0.32	27.8	31.3	11.8	120	117	2.5	105			75 - 125	30	
Zinc	BRL	0.64	136	165	19.3	104	111	6.5	119			75 - 125	30	

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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



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QA/QC Report

August 08, 2019

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 489259 (ug/Kg), QC Sample No: CD62913 2X (CD62909, CD62911, CD62913, CD62915, CD62917, CD62919, CD62921)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	81	84	3.6	68	79	15.0	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	97	88	9.7	73	84	14.0	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	83	%	96	91	5.3	74	85	13.8	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	80	%	95	97	2.1	79	90	13.0	30 - 150	30
% TCMX (Surrogate Rec)	78	%	85	88	3.5	68	83	19.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	76	%	88	93	5.5	72	87	18.9	30 - 150	30

QA/QC Batch 489089 (ug/Kg), QC Sample No: CD63081 2X (CD62910)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	86	88	2.3	64	77	18.4	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	85	89	4.6	63	76	18.7	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	74	%	93	97	4.2	67	81	18.9	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	77	%	98	101	3.0	71	85	17.9	30 - 150	30
% TCMX (Surrogate Rec)	74	%	92	96	4.3	69	81	16.0	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	75	%	97	100	3.0	73	85	15.2	30 - 150	30

QA/QC Batch 489258 (ug/Kg), QC Sample No: CD63787 2X (CD62912, CD62914, CD62916, CD62918, CD62920, CD62922, CD62923)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	84	82	2.4	71	65	8.8	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	99	82	18.8	66	61	7.9	40 - 140	30
PCB-1262	ND	33							40 - 140	30

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	79	%	100	83	18.6	69	64	7.5	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	76	%	97	88	9.7	73	68	7.1	30 - 150	30
% TCMX (Surrogate Rec)	77	%	89	86	3.4	75	71	5.5	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	75	%	90	91	1.1	79	74	6.5	30 - 150	30

QA/QC Batch 489091 (ug/Kg), QC Sample No: CD63081 2X (CD62910)

Pesticides - Soil

4,4' -DDD	ND	1.7	79	70	12.1	51	48	6.1	40 - 140	30
4,4' -DDE	ND	1.7	64	68	6.1	51	47	8.2	40 - 140	30
4,4' -DDT	ND	1.7	65	68	4.5	49	47	4.2	40 - 140	30
a-BHC	ND	1.0	72	78	8.0	57	57	0.0	40 - 140	30
a-Chlordane	ND	3.3	68	72	5.7	53	49	7.8	40 - 140	30
Aldrin	ND	1.0	75	69	8.3	49	48	2.1	40 - 140	30
b-BHC	ND	1.0	98	93	5.2	71	67	5.8	40 - 140	30
Chlordane	ND	33	72	72	0.0	51	50	2.0	40 - 140	30
d-BHC	ND	3.3	80	79	1.3	56	54	3.6	40 - 140	30
Dieldrin	ND	1.0	65	74	12.9	52	52	0.0	40 - 140	30
Endosulfan I	ND	3.3	74	77	4.0	57	51	11.1	40 - 140	30
Endosulfan II	ND	3.3	86	79	8.5	60	55	8.7	40 - 140	30
Endosulfan sulfate	ND	3.3	72	79	9.3	58	56	3.5	40 - 140	30
Endrin	ND	3.3	76	71	6.8	52	49	5.9	40 - 140	30
Endrin aldehyde	ND	3.3	62	73	16.3	47	46	2.2	40 - 140	30
Endrin ketone	ND	3.3	66	69	4.4	50	48	4.1	40 - 140	30
g-BHC	ND	1.0	88	71	21.4	53	52	1.9	40 - 140	30
g-Chlordane	ND	3.3	72	72	0.0	51	50	2.0	40 - 140	30
Heptachlor	ND	3.3	70	72	2.8	53	53	0.0	40 - 140	30
Heptachlor epoxide	ND	3.3	67	71	5.8	55	53	3.7	40 - 140	30
Methoxychlor	ND	3.3	66	69	4.4	53	50	5.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	69	%	58	58	0.0	47	45	4.3	30 - 150	30
% DCBP (Confirmation)	68	%	61	46	28.0	36	36	0.0	30 - 150	30
% TCMX	66	%	69	72	4.3	53	52	1.9	30 - 150	30
% TCMX (Confirmation)	68	%	66	68	3.0	56	53	5.5	30 - 150	30

QA/QC Batch 489260 (ug/Kg), QC Sample No: CD63787 2X (CD62912, CD62914, CD62916, CD62918, CD62920, CD62922, CD62923)

Pesticides - Soil

4,4' -DDD	ND	1.7	75			49	57	15.1	40 - 140	30
4,4' -DDE	ND	1.7	71			45	54	18.2	40 - 140	30
4,4' -DDT	ND	1.7	77			49	57	15.1	40 - 140	30
a-BHC	ND	1.0	79			51	59	14.5	40 - 140	30
a-Chlordane	ND	3.3	73			49	56	13.3	40 - 140	30
Aldrin	ND	1.0	67			44	50	12.8	40 - 140	30
b-BHC	ND	1.0	95			60	69	14.0	40 - 140	30
Chlordane	ND	33	79			53	61	14.0	40 - 140	30
d-BHC	ND	3.3	75			49	56	13.3	40 - 140	30
Dieldrin	ND	1.0	78			53	60	12.4	40 - 140	30
Endosulfan I	ND	3.3	83			53	62	15.7	40 - 140	30
Endosulfan II	ND	3.3	91			58	67	14.4	40 - 140	30
Endosulfan sulfate	ND	3.3	91			55	64	15.1	40 - 140	30
Endrin	ND	3.3	77			51	59	14.5	40 - 140	30
Endrin aldehyde	ND	3.3	89			56	65	14.9	40 - 140	30
Endrin ketone	ND	3.3	86			50	55	9.5	40 - 140	30

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
g-BHC	ND	1.0	75			47	54	13.9	40 - 140	30
g-Chlordane	ND	3.3	79			53	61	14.0	40 - 140	30
Heptachlor	ND	3.3	84			52	61	15.9	40 - 140	30
Heptachlor epoxide	ND	3.3	81			54	64	16.9	40 - 140	30
Methoxychlor	ND	3.3	84			51	60	16.2	40 - 140	30
Toxaphene	ND	130	NA			NA	NA	NC	40 - 140	30
% DCBP	54	%	61			39	46	16.5	30 - 150	30
% DCBP (Confirmation)	47	%	75			40	46	14.0	30 - 150	30
% TCMX	61	%	70			46	53	14.1	30 - 150	30
% TCMX (Confirmation)	66	%	76			52	59	12.6	30 - 150	30

Comment:

This batch consists of a Blank, LCS, MS and MSD.

QA/QC Batch 489149 (ug/kg), QC Sample No: CD62915 (CD62909, CD62910, CD62911, CD62912, CD62913, CD62914, CD62915, CD62916, CD62917, CD62918, CD62919, CD62921)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	54	55	1.8	54	54	0.0	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	56	55	1.8	55	56	1.8	30 - 130	30	
1,2-Dichlorobenzene	ND	180	56	54	3.6	54	55	1.8	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	74	78	5.3	73	72	1.4	30 - 130	30	
1,3-Dichlorobenzene	ND	230	49	48	2.1	49	51	4.0	30 - 130	30	
1,4-Dichlorobenzene	ND	230	57	53	7.3	54	56	3.6	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	76	79	3.9	71	73	2.8	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	72	76	5.4	66	66	0.0	30 - 130	30	
2,4-Dichlorophenol	ND	130	67	68	1.5	64	63	1.6	30 - 130	30	
2,4-Dimethylphenol	ND	230	76	79	3.9	50	46	8.3	30 - 130	30	
2,4-Dinitrophenol	ND	230	67	70	4.4	19	<10	NC	30 - 130	30	m
2,4-Dinitrotoluene	ND	130	72	77	6.7	72	73	1.4	30 - 130	30	
2,6-Dinitrotoluene	ND	130	77	81	5.1	78	78	0.0	30 - 130	30	
2-Chloronaphthalene	ND	230	65	64	1.6	63	64	1.6	30 - 130	30	
2-Chlorophenol	ND	230	68	67	1.5	66	65	1.5	30 - 130	30	
2-Methylnaphthalene	ND	230	55	56	1.8	54	54	0.0	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	71	71	0.0	63	61	3.2	30 - 130	30	
2-Nitroaniline	ND	330	95	103	8.1	97	94	3.1	30 - 130	30	
2-Nitrophenol	ND	230	72	72	0.0	70	70	0.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	71	71	0.0	63	61	3.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	82	93	12.6	73	69	5.6	30 - 130	30	
3-Nitroaniline	ND	330	81	92	12.7	86	86	0.0	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	75	79	5.2	47	30	44.2	30 - 130	30	r
4-Bromophenyl phenyl ether	ND	230	62	66	6.3	63	64	1.6	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	74	81	9.0	73	72	1.4	30 - 130	30	
4-Chloroaniline	ND	230	57	64	11.6	68	66	3.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	64	67	4.6	64	64	0.0	30 - 130	30	
4-Nitroaniline	ND	230	90	95	5.4	92	91	1.1	30 - 130	30	
4-Nitrophenol	ND	230	92	99	7.3	89	86	3.4	30 - 130	30	
Acenaphthene	ND	230	67	68	1.5	66	67	1.5	30 - 130	30	
Acenaphthylene	ND	130	65	67	3.0	64	65	1.6	30 - 130	30	
Acetophenone	ND	230	61	60	1.7	60	60	0.0	30 - 130	30	
Aniline	ND	330	40	40	0.0	42	39	7.4	30 - 130	30	
Anthracene	ND	230	65	69	6.0	66	67	1.5	30 - 130	30	
Benz(a)anthracene	ND	230	69	74	7.0	70	69	1.4	30 - 130	30	
Benzidine	ND	330	<10	<10	NC	12	<10	NC	30 - 130	30	l,m
Benzo(a)pyrene	ND	130	70	76	8.2	72	71	1.4	30 - 130	30	

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(b)fluoranthene	ND	160	70	74	5.6	69	70	1.4	30 - 130	30
Benzo(ghi)perylene	ND	230	66	71	7.3	67	67	0.0	30 - 130	30
Benzo(k)fluoranthene	ND	230	73	76	4.0	72	72	0.0	30 - 130	30
Benzoic Acid	ND	330	32	41	24.7	<10	<10	NC	30 - 130	30
Benzyl butyl phthalate	ND	230	85	93	9.0	85	85	0.0	30 - 130	30
Bis(2-chloroethoxy)methane	ND	230	59	58	1.7	58	58	0.0	30 - 130	30
Bis(2-chloroethyl)ether	ND	130	56	54	3.6	55	55	0.0	30 - 130	30
Bis(2-chloroisopropyl)ether	ND	230	62	60	3.3	61	62	1.6	30 - 130	30
Bis(2-ethylhexyl)phthalate	ND	230	89	98	9.6	91	90	1.1	30 - 130	30
Carbazole	ND	230	63	66	4.7	65	67	3.0	30 - 130	30
Chrysene	ND	230	67	73	8.6	69	68	1.5	30 - 130	30
Dibenz(a,h)anthracene	ND	130	72	78	8.0	74	73	1.4	30 - 130	30
Dibenzofuran	ND	230	64	66	3.1	63	65	3.1	30 - 130	30
Diethyl phthalate	ND	230	68	72	5.7	68	68	0.0	30 - 130	30
Dimethylphthalate	ND	230	66	68	3.0	66	66	0.0	30 - 130	30
Di-n-butylphthalate	ND	670	69	74	7.0	71	71	0.0	30 - 130	30
Di-n-octylphthalate	ND	230	82	89	8.2	83	82	1.2	30 - 130	30
Fluoranthene	ND	230	63	67	6.2	64	65	1.6	30 - 130	30
Fluorene	ND	230	67	71	5.8	67	68	1.5	30 - 130	30
Hexachlorobenzene	ND	130	68	70	2.9	67	69	2.9	30 - 130	30
Hexachlorobutadiene	ND	230	54	54	0.0	55	55	0.0	30 - 130	30
Hexachlorocyclopentadiene	ND	230	42	34	21.1	38	37	2.7	30 - 130	30
Hexachloroethane	ND	130	56	53	5.5	55	56	1.8	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	74	80	7.8	77	75	2.6	30 - 130	30
Isophorone	ND	130	57	57	0.0	57	56	1.8	30 - 130	30
Naphthalene	ND	230	57	57	0.0	56	56	0.0	30 - 130	30
Nitrobenzene	ND	130	66	64	3.1	64	64	0.0	30 - 130	30
N-Nitrosodimethylamine	ND	230	57	55	3.6	53	55	3.7	30 - 130	30
N-Nitrosodi-n-propylamine	ND	130	67	66	1.5	67	66	1.5	30 - 130	30
N-Nitrosodiphenylamine	ND	130	63	67	6.2	60	59	1.7	30 - 130	30
Pentachloronitrobenzene	ND	230	69	75	8.3	71	71	0.0	30 - 130	30
Pentachlorophenol	ND	230	54	69	24.4	53	50	5.8	30 - 130	30
Phenanthrene	ND	130	69	74	7.0	69	71	2.9	30 - 130	30
Phenol	ND	230	80	78	2.5	77	76	1.3	30 - 130	30
Pyrene	ND	230	64	68	6.1	65	66	1.5	30 - 130	30
Pyridine	ND	230	41	39	5.0	38	40	5.1	30 - 130	30
% 2,4,6-Tribromophenol	60	%	91	94	3.2	82	83	1.2	30 - 130	30
% 2-Fluorobiphenyl	58	%	64	63	1.6	62	63	1.6	30 - 130	30
% 2-Fluorophenol	55	%	61	58	5.0	58	57	1.7	30 - 130	30
% Nitrobenzene-d5	59	%	65	61	6.3	63	62	1.6	30 - 130	30
% Phenol-d5	59	%	67	65	3.0	64	63	1.6	30 - 130	30
% Terphenyl-d14	54	%	60	63	4.9	60	61	1.7	30 - 130	30

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%)

QA/QC Batch 489255 (ug/kg), QC Sample No: CD62922 (CD62922, CD62923)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	56	56	0.0	47	50	6.2	30 - 130	30
1,2,4-Trichlorobenzene	ND	230	59	54	8.8	48	56	15.4	30 - 130	30
1,2-Dichlorobenzene	ND	180	51	43	17.0	45	44	2.2	30 - 130	30
1,2-Diphenylhydrazine	ND	230	57	65	13.1	57	50	13.1	30 - 130	30
1,3-Dichlorobenzene	ND	230	51	39	26.7	42	45	6.9	30 - 130	30

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,4-Dichlorobenzene	ND	230	51	39	26.7	43	45	4.5	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	69	76	9.7	58	60	3.4	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	71	78	9.4	60	57	5.1	30 - 130	30	
2,4-Dichlorophenol	ND	130	62	71	13.5	56	49	13.3	30 - 130	30	
2,4-Dimethylphenol	ND	230	67	77	13.9	60	51	16.2	30 - 130	30	
2,4-Dinitrophenol	ND	230	61	62	1.6	39	31	22.9	30 - 130	30	
2,4-Dinitrotoluene	ND	130	65	74	12.9	59	57	3.4	30 - 130	30	
2,6-Dinitrotoluene	ND	130	61	70	13.7	55	58	5.3	30 - 130	30	
2-Chloronaphthalene	ND	230	63	68	7.6	53	54	1.9	30 - 130	30	
2-Chlorophenol	ND	230	52	54	3.8	54	36	40.0	30 - 130	30	r
2-Methylnaphthalene	ND	230	55	56	1.8	49	47	4.2	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	53	64	18.8	61	34	56.8	30 - 130	30	r
2-Nitroaniline	ND	330	81	97	18.0	74	75	1.3	30 - 130	30	
2-Nitrophenol	ND	230	65	67	3.0	55	52	5.6	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	56	61	8.5	59	37	45.8	30 - 130	30	r
3,3'-Dichlorobenzidine	ND	130	66	71	7.3	65	60	8.0	30 - 130	30	
3-Nitroaniline	ND	330	70	83	17.0	65	65	0.0	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	69	74	7.0	55	45	20.0	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	59	65	9.7	52	51	1.9	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	62	71	13.5	59	52	12.6	30 - 130	30	
4-Chloroaniline	ND	230	54	64	16.9	60	48	22.2	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	60	68	12.5	53	52	1.9	30 - 130	30	
4-Nitroaniline	ND	230	69	76	9.7	60	58	3.4	30 - 130	30	
4-Nitrophenol	ND	230	78	82	5.0	63	61	3.2	30 - 130	30	
Acenaphthene	ND	230	66	70	5.9	56	56	0.0	30 - 130	30	
Acenaphthylene	ND	130	60	66	9.5	52	51	1.9	30 - 130	30	
Acetophenone	ND	230	49	48	2.1	50	35	35.3	30 - 130	30	r
Aniline	ND	330	42	41	2.4	48	32	40.0	30 - 130	30	r
Anthracene	ND	230	61	69	12.3	53	54	1.9	30 - 130	30	
Benz(a)anthracene	ND	230	62	69	10.7	55	54	1.8	30 - 130	30	
Benzidine	ND	330	11	<10	NC	33	30	9.5	30 - 130	30	l
Benzo(a)pyrene	ND	130	60	65	8.0	52	51	1.9	30 - 130	30	
Benzo(b)fluoranthene	ND	160	68	69	1.5	56	54	3.6	30 - 130	30	
Benzo(ghi)perylene	ND	230	45	53	16.3	42	43	2.4	30 - 130	30	
Benzo(k)fluoranthene	ND	230	64	71	10.4	59	58	1.7	30 - 130	30	
Benzoic Acid	ND	330	45	28	46.6	16	<10	NC	30 - 130	30	l,m,r
Benzyl butyl phthalate	ND	230	65	70	7.4	56	55	1.8	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	54	56	3.6	48	45	6.5	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	49	39	22.7	49	40	20.2	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	43	40	7.2	42	36	15.4	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	59	66	11.2	55	55	0.0	30 - 130	30	
Carbazole	ND	230	60	68	12.5	54	55	1.8	30 - 130	30	
Chrysene	ND	230	61	67	9.4	55	55	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	55	61	10.3	48	49	2.1	30 - 130	30	
Dibenzofuran	ND	230	61	68	10.9	54	53	1.9	30 - 130	30	
Diethyl phthalate	ND	230	61	71	15.2	55	56	1.8	30 - 130	30	
Dimethylphthalate	ND	230	61	68	10.9	54	53	1.9	30 - 130	30	
Di-n-butylphthalate	ND	670	59	66	11.2	53	55	3.7	30 - 130	30	
Di-n-octylphthalate	ND	230	58	67	14.4	56	56	0.0	30 - 130	30	
Fluoranthene	ND	230	57	63	10.0	50	52	3.9	30 - 130	30	
Fluorene	ND	230	63	70	10.5	55	55	0.0	30 - 130	30	
Hexachlorobenzene	ND	130	62	73	16.3	55	58	5.3	30 - 130	30	
Hexachlorobutadiene	ND	230	62	55	12.0	47	62	27.5	30 - 130	30	

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Hexachlorocyclopentadiene	ND	230	52	41	23.7	32	37	14.5	30 - 130	30
Hexachloroethane	ND	130	50	38	27.3	38	46	19.0	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	54	60	10.5	47	48	2.1	30 - 130	30
Isophorone	ND	130	52	53	1.9	46	43	6.7	30 - 130	30
Naphthalene	ND	230	57	56	1.8	49	51	4.0	30 - 130	30
Nitrobenzene	ND	130	51	50	2.0	51	38	29.2	30 - 130	30
N-Nitrosodimethylamine	ND	230	51	46	10.3	44	36	20.0	30 - 130	30
N-Nitrosodi-n-propylamine	ND	130	53	53	0.0	54	38	34.8	30 - 130	30
N-Nitrosodiphenylamine	ND	130	58	65	11.4	51	49	4.0	30 - 130	30
Pentachloronitrobenzene	ND	230	63	73	14.7	55	57	3.6	30 - 130	30
Pentachlorophenol	ND	230	65	75	14.3	56	50	11.3	30 - 130	30
Phenanthrene	ND	130	61	67	9.4	54	54	0.0	30 - 130	30
Phenol	ND	230	54	56	3.6	62	35	55.7	30 - 130	30
Pyrene	ND	230	59	65	9.7	51	54	5.7	30 - 130	30
Pyridine	ND	230	40	30	28.6	32	31	3.2	30 - 130	30
% 2,4,6-Tribromophenol	55	%	69	81	16.0	61	59	3.3	30 - 130	30
% 2-Fluorobiphenyl	61	%	60	64	6.5	51	52	1.9	30 - 130	30
% 2-Fluorophenol	50	%	51	54	5.7	53	34	43.7	30 - 130	30
% Nitrobenzene-d5	50	%	49	47	4.2	50	36	32.6	30 - 130	30
% Phenol-d5	47	%	51	53	3.8	53	34	43.7	30 - 130	30
% Terphenyl-d14	61	%	54	59	8.8	47	49	4.2	30 - 130	30

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%)

QA/QC Batch 490125 (ug/kg), QC Sample No: CD64941 (CD62920)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	61	54	12.2	47	54	13.9	30 - 130	30
1,2,4-Trichlorobenzene	ND	230	55	50	9.5	49	57	15.1	30 - 130	30
1,2-Dichlorobenzene	ND	180	34	35	2.9	44	48	8.7	30 - 130	30
1,2-Diphenylhydrazine	ND	230	77	72	6.7	55	66	18.2	30 - 130	30
1,3-Dichlorobenzene	ND	230	27	28	3.6	39	42	7.4	30 - 130	30
1,4-Dichlorobenzene	ND	230	30	33	9.5	42	47	11.2	30 - 130	30
2,4,5-Trichlorophenol	ND	230	83	79	4.9	61	72	16.5	30 - 130	30
2,4,6-Trichlorophenol	ND	130	85	80	6.1	63	70	10.5	30 - 130	30
2,4-Dichlorophenol	ND	130	80	73	9.2	62	71	13.5	30 - 130	30
2,4-Dimethylphenol	ND	230	81	75	7.7	66	72	8.7	30 - 130	30
2,4-Dinitrophenol	ND	230	77	76	1.3	35	25	33.3	30 - 130	30
2,4-Dinitrotoluene	ND	130	92	87	5.6	65	80	20.7	30 - 130	30
2,6-Dinitrotoluene	ND	130	87	84	3.5	64	78	19.7	30 - 130	30
2-Chloronaphthalene	ND	230	77	70	9.5	56	66	16.4	30 - 130	30
2-Chlorophenol	ND	230	55	58	5.3	56	61	8.5	30 - 130	30
2-Methylnaphthalene	ND	230	65	62	4.7	54	61	12.2	30 - 130	30
2-Methylphenol (o-cresol)	ND	230	70	72	2.8	51	67	27.1	30 - 130	30
2-Nitroaniline	ND	330	126	124	1.6	101	122	18.8	30 - 130	30
2-Nitrophenol	ND	230	60	58	3.4	63	64	1.6	30 - 130	30
3&4-Methylphenol (m&p-cresol)	ND	230	74	75	1.3	58	66	12.9	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	95	83	13.5	81	96	16.9	30 - 130	30
3-Nitroaniline	ND	330	95	86	9.9	71	90	23.6	30 - 130	30
4,6-Dinitro-2-methylphenol	ND	230	87	82	5.9	53	62	15.7	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	82	78	5.0	62	73	16.3	30 - 130	30
4-Chloro-3-methylphenol	ND	230	87	82	5.9	71	79	10.7	30 - 130	30
4-Chloroaniline	ND	230	62	54	13.8	58	61	5.0	30 - 130	30

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorophenyl phenyl ether	ND	230	77	76	1.3	58	69	17.3	30 - 130	30	
4-Nitroaniline	ND	230	91	83	9.2	65	75	14.3	30 - 130	30	
4-Nitrophenol	ND	230	95	90	5.4	62	79	24.1	30 - 130	30	
Acenaphthene	ND	230	81	77	5.1	58	71	20.2	30 - 130	30	
Acenaphthylene	ND	130	78	73	6.6	57	66	14.6	30 - 130	30	
Acetophenone	ND	230	52	53	1.9	51	56	9.3	30 - 130	30	
Aniline	ND	330	40	40	0.0	47	57	19.2	30 - 130	30	
Anthracene	ND	230	84	80	4.9	65	74	12.9	30 - 130	30	
Benz(a)anthracene	ND	230	82	76	7.6	64	75	15.8	30 - 130	30	
Benzidine	ND	330	10	<10	NC	59	68	14.2	30 - 130	30	I
Benzo(a)pyrene	ND	130	82	76	7.6	62	74	17.6	30 - 130	30	
Benzo(b)fluoranthene	ND	160	81	77	5.1	59	71	18.5	30 - 130	30	
Benzo(ghi)perylene	ND	230	78	73	6.6	60	71	16.8	30 - 130	30	
Benzo(k)fluoranthene	ND	230	83	77	7.5	64	76	17.1	30 - 130	30	
Benzoic Acid	ND	330	74	80	7.8	<10	<10	NC	30 - 130	30	m
Benzyl butyl phthalate	ND	230	99	91	8.4	72	87	18.9	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	62	58	6.7	55	59	7.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	31	31	0.0	36	43	17.7	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	34	36	5.7	41	44	7.1	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	88	83	5.8	66	78	16.7	30 - 130	30	
Carbazole	ND	230	88	84	4.7	64	76	17.1	30 - 130	30	
Chrysene	ND	230	82	77	6.3	61	73	17.9	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	84	79	6.1	63	75	17.4	30 - 130	30	
Dibenzofuran	ND	230	76	72	5.4	54	64	16.9	30 - 130	30	
Diethyl phthalate	ND	230	85	83	2.4	63	74	16.1	30 - 130	30	
Dimethylphthalate	ND	230	83	77	7.5	60	71	16.8	30 - 130	30	
Di-n-butylphthalate	ND	670	93	88	5.5	69	82	17.2	30 - 130	30	
Di-n-octylphthalate	ND	230	93	88	5.5	72	82	13.0	30 - 130	30	
Fluoranthene	ND	230	78	75	3.9	61	71	15.2	30 - 130	30	
Fluorene	ND	230	81	80	1.2	57	69	19.0	30 - 130	30	
Hexachlorobenzene	ND	130	78	69	12.2	61	71	15.2	30 - 130	30	
Hexachlorobutadiene	ND	230	45	41	9.3	48	52	8.0	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	42	39	7.4	28	33	16.4	30 - 130	30	m
Hexachloroethane	ND	130	29	30	3.4	37	42	12.7	30 - 130	30	I
Indeno(1,2,3-cd)pyrene	ND	230	79	75	5.2	61	73	17.9	30 - 130	30	
Isophorone	ND	130	61	56	8.5	54	58	7.1	30 - 130	30	
Naphthalene	ND	230	55	51	7.5	52	57	9.2	30 - 130	30	
Nitrobenzene	ND	130	53	52	1.9	50	57	13.1	30 - 130	30	
N-Nitrosodimethylamine	ND	230	21	20	4.9	42	41	2.4	30 - 130	30	I
N-Nitrosodi-n-propylamine	ND	130	59	62	5.0	55	61	10.3	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	84	80	4.9	61	72	16.5	30 - 130	30	
Pentachloronitrobenzene	ND	230	73	68	7.1	59	66	11.2	30 - 130	30	
Pentachlorophenol	ND	230	86	84	2.4	54	64	16.9	30 - 130	30	
Phenanthrene	ND	130	80	76	5.1	60	69	14.0	30 - 130	30	
Phenol	ND	230	60	62	3.3	50	58	14.8	30 - 130	30	
Pyrene	ND	230	81	78	3.8	62	71	13.5	30 - 130	30	
Pyridine	ND	230	11	11	0.0	25	29	14.8	30 - 130	30	I,m
% 2,4,6-Tribromophenol	60	%	94	84	11.2	68	78	13.7	30 - 130	30	
% 2-Fluorobiphenyl	52	%	69	64	7.5	50	59	16.5	30 - 130	30	
% 2-Fluorophenol	45	%	42	41	2.4	45	53	16.3	30 - 130	30	
% Nitrobenzene-d5	52	%	52	53	1.9	50	56	11.3	30 - 130	30	
% Phenol-d5	53	%	60	61	1.7	50	58	14.8	30 - 130	30	
% Terphenyl-d14	59	%	71	67	5.8	51	61	17.9	30 - 130	30	

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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%)										
QA/QC Batch 489264 (ug/kg), QC Sample No: CD62942 (CD62909, CD62910, CD62911, CD62912, CD62913, CD62914, CD62915, CD62916, CD62918, CD62919, CD62920, CD62921, CD62922, CD62923, CD62925)										
<u>Volatiles - Soil (Low Level)</u>										
1,1,1,2-Tetrachloroethane	ND	5.0	111	114	2.7	109	103	5.7	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	104	105	1.0	105	99	5.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	111	112	0.9	112	81	32.1	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	104	105	1.0	101	96	5.1	70 - 130	30
1,1-Dichloroethane	ND	5.0	108	107	0.9	110	102	7.5	70 - 130	30
1,1-Dichloroethene	ND	5.0	111	115	3.5	115	104	10.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	105	105	0.0	104	97	7.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	103	109	5.7	58	56	3.5	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	104	110	5.6	112	103	8.4	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	101	104	2.9	62	59	5.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	105	105	0.0	101	91	10.4	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	108	111	2.7	102	96	6.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	112	111	0.9	107	101	5.8	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	105	106	0.9	92	86	6.7	70 - 130	30
1,2-Dichloroethane	ND	5.0	108	109	0.9	106	103	2.9	70 - 130	30
1,2-Dichloropropane	ND	5.0	110	112	1.8	108	102	5.7	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	106	106	0.0	106	96	9.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	104	107	2.8	95	88	7.7	70 - 130	30
1,3-Dichloropropane	ND	5.0	110	111	0.9	109	100	8.6	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	103	104	1.0	91	86	5.6	70 - 130	30
1,4-dioxane	ND	100	107	99	7.8	96	116	18.9	70 - 130	30
2,2-Dichloropropane	ND	5.0	108	110	1.8	104	96	8.0	70 - 130	30
2-Chlorotoluene	ND	5.0	106	106	0.0	109	99	9.6	70 - 130	30
2-Hexanone	ND	25	101	99	2.0	87	86	1.2	70 - 130	30
2-Isopropyltoluene	ND	5.0	102	104	1.9	100	88	12.8	70 - 130	30
4-Chlorotoluene	ND	5.0	104	106	1.9	103	94	9.1	70 - 130	30
4-Methyl-2-pentanone	ND	25	108	107	0.9	101	95	6.1	70 - 130	30
Acetone	ND	10	80	76	5.1	65	65	0.0	70 - 130	30
Acrolein	ND	25	98	98	0.0	93	97	4.2	70 - 130	30
Acrylonitrile	ND	5.0	96	98	2.1	93	87	6.7	70 - 130	30
Benzene	ND	1.0	107	107	0.0	105	99	5.9	70 - 130	30
Bromobenzene	ND	5.0	105	106	0.9	108	98	9.7	70 - 130	30
Bromochloromethane	ND	5.0	107	109	1.9	106	100	5.8	70 - 130	30
Bromodichloromethane	ND	5.0	109	110	0.9	104	101	2.9	70 - 130	30
Bromoform	ND	5.0	113	110	2.7	102	99	3.0	70 - 130	30
Bromomethane	ND	5.0	113	113	0.0	116	107	8.1	70 - 130	30
Carbon Disulfide	ND	5.0	106	108	1.9	100	94	6.2	70 - 130	30
Carbon tetrachloride	ND	5.0	106	108	1.9	105	98	6.9	70 - 130	30
Chlorobenzene	ND	5.0	107	107	0.0	101	94	7.2	70 - 130	30
Chloroethane	ND	5.0	107	106	0.9	110	103	6.6	70 - 130	30
Chloroform	ND	5.0	103	106	2.9	104	97	7.0	70 - 130	30
Chloromethane	ND	5.0	108	109	0.9	109	100	8.6	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	113	109	3.6	110	104	5.6	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	110	111	0.9	101	96	5.1	70 - 130	30
Dibromochloromethane	ND	3.0	112	116	3.5	111	104	6.5	70 - 130	30
Dibromomethane	ND	5.0	108	107	0.9	103	97	6.0	70 - 130	30

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dichlorodifluoromethane	ND	5.0	125	122	2.4	121	112	7.7	70 - 130	30
Ethylbenzene	ND	1.0	109	109	0.0	104	97	7.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	108	112	3.6	74	57	26.0	70 - 130	30
Isopropylbenzene	ND	1.0	108	108	0.0	115	104	10.0	70 - 130	30
m&p-Xylene	ND	2.0	106	106	0.0	101	95	6.1	70 - 130	30
Methyl ethyl ketone	ND	5.0	96	98	2.1	92	88	4.4	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	104	106	1.9	106	99	6.8	70 - 130	30
Methylene chloride	ND	5.0	96	97	1.0	100	94	6.2	70 - 130	30
Naphthalene	ND	5.0	108	109	0.9	63	60	4.9	70 - 130	30
n-Butylbenzene	ND	1.0	104	105	1.0	92	80	14.0	70 - 130	30
n-Propylbenzene	ND	1.0	106	106	0.0	110	96	13.6	70 - 130	30
o-Xylene	ND	2.0	110	111	0.9	104	99	4.9	70 - 130	30
p-Isopropyltoluene	ND	1.0	106	107	0.9	103	90	13.5	70 - 130	30
sec-Butylbenzene	ND	1.0	110	112	1.8	110	96	13.6	70 - 130	30
Styrene	ND	5.0	109	108	0.9	96	90	6.5	70 - 130	30
tert-butyl alcohol	ND	100	105	97	7.9	94	114	19.2	70 - 130	30
tert-Butylbenzene	ND	1.0	108	108	0.0	111	99	11.4	70 - 130	30
Tetrachloroethene	ND	5.0	106	105	0.9	99	94	5.2	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	95	95	0.0	91	88	3.4	70 - 130	30
Toluene	ND	1.0	108	106	1.9	103	98	5.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	113	114	0.9	109	101	7.6	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	109	109	0.0	96	92	4.3	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	106	104	1.9	101	93	8.2	70 - 130	30
Trichloroethene	ND	5.0	107	108	0.9	109	119	8.8	70 - 130	30
Trichlorofluoromethane	ND	5.0	94	95	1.1	88	89	1.1	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	103	105	1.9	105	98	6.9	70 - 130	30
Vinyl chloride	ND	5.0	112	113	0.9	112	104	7.4	70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	101	102	1.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	96	%	101	101	0.0	96	97	1.0	70 - 130	30
% Dibromofluoromethane	100	%	97	97	0.0	101	97	4.0	70 - 130	30
% Toluene-d8	99	%	100	100	0.0	99	99	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 489466 (ug/kg), QC Sample No: CD63068 (CD62917)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	107	112	4.6	88			70 - 130	30
1,1,1-Trichloroethane	ND	5.0	100	101	1.0	89			70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	104	109	4.7	99			70 - 130	30
1,1,2-Trichloroethane	ND	5.0	100	105	4.9	81			70 - 130	30
1,1-Dichloroethane	ND	5.0	103	106	2.9	91			70 - 130	30
1,1-Dichloroethene	ND	5.0	106	110	3.7	93			70 - 130	30
1,1-Dichloropropene	ND	5.0	98	101	3.0	82			70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	96	102	6.1	34			70 - 130	30
1,2,3-Trichloropropane	ND	5.0	96	109	12.7	99			70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	94	99	5.2	36			70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	97	100	3.0	70			70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	101	109	7.6	84			70 - 130	30
1,2-Dibromoethane	ND	5.0	103	108	4.7	83			70 - 130	30
1,2-Dichlorobenzene	ND	5.0	99	103	4.0	66			70 - 130	30
1,2-Dichloroethane	ND	5.0	104	108	3.8	88			70 - 130	30
1,2-Dichloropropane	ND	5.0	104	106	1.9	88			70 - 130	30

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,3,5-Trimethylbenzene	ND	1.0	98	102	4.0	80			70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	98	102	4.0	67			70 - 130	30	m
1,3-Dichloropropane	ND	5.0	105	107	1.9	89			70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	96	101	5.1	63			70 - 130	30	m
1,4-dioxane	ND	100	107	98	8.8	123			70 - 130	30	
2,2-Dichloropropane	ND	5.0	101	105	3.9	87			70 - 130	30	
2-Chlorotoluene	ND	5.0	99	102	3.0	86			70 - 130	30	
2-Hexanone	ND	25	94	99	5.2	52			70 - 130	30	m
2-Isopropyltoluene	ND	5.0	95	99	4.1	72			70 - 130	30	
4-Chlorotoluene	ND	5.0	97	100	3.0	76			70 - 130	30	
4-Methyl-2-pentanone	ND	25	99	106	6.8	67			70 - 130	30	m
Acetone	ND	10	70	76	8.2	65			70 - 130	30	m
Acrolein	ND	25	99	101	2.0	86			70 - 130	30	
Acrylonitrile	ND	5.0	93	98	5.2	69			70 - 130	30	m
Benzene	ND	1.0	100	101	1.0	84			70 - 130	30	
Bromobenzene	ND	5.0	99	103	4.0	80			70 - 130	30	
Bromochloromethane	ND	5.0	103	106	2.9	86			70 - 130	30	
Bromodichloromethane	ND	5.0	106	107	0.9	87			70 - 130	30	
Bromoform	ND	5.0	109	114	4.5	78			70 - 130	30	
Bromomethane	ND	5.0	109	109	0.0	78			70 - 130	30	
Carbon Disulfide	ND	5.0	100	103	3.0	78			70 - 130	30	
Carbon tetrachloride	ND	5.0	101	104	2.9	86			70 - 130	30	
Chlorobenzene	ND	5.0	101	103	2.0	77			70 - 130	30	
Chloroethane	ND	5.0	102	105	2.9	81			70 - 130	30	
Chloroform	ND	5.0	99	102	3.0	87			70 - 130	30	
Chloromethane	ND	5.0	101	104	2.9	90			70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	106	109	2.8	92			70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	103	107	3.8	75			70 - 130	30	
Dibromochloromethane	ND	3.0	109	114	4.5	86			70 - 130	30	
Dibromomethane	ND	5.0	102	104	1.9	81			70 - 130	30	
Dichlorodifluoromethane	ND	5.0	107	112	4.6	95			70 - 130	30	
Ethylbenzene	ND	1.0	101	105	3.9	82			70 - 130	30	
Hexachlorobutadiene	ND	5.0	99	105	5.9	41			70 - 130	30	m
Isopropylbenzene	ND	1.0	99	104	4.9	95			70 - 130	30	
m&p-Xylene	ND	2.0	100	103	3.0	76			70 - 130	30	
Methyl ethyl ketone	ND	5.0	90	98	8.5	74			70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	101	105	3.9	91			70 - 130	30	
Methylene chloride	ND	5.0	94	96	2.1	80			70 - 130	30	
Naphthalene	ND	5.0	101	106	4.8	40			70 - 130	30	m
n-Butylbenzene	ND	1.0	94	99	5.2	63			70 - 130	30	m
n-Propylbenzene	ND	1.0	97	101	4.0	85			70 - 130	30	
o-Xylene	ND	2.0	104	107	2.8	82			70 - 130	30	
p-Isopropyltoluene	ND	1.0	97	101	4.0	74			70 - 130	30	
sec-Butylbenzene	ND	1.0	102	107	4.8	81			70 - 130	30	
Styrene	ND	5.0	103	105	1.9	67			70 - 130	30	m
tert-butyl alcohol	ND	100	104	101	2.9	117			70 - 130	30	
tert-Butylbenzene	ND	1.0	100	103	3.0	86			70 - 130	30	
Tetrachloroethene	ND	5.0	97	103	6.0	76			70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	86	94	8.9	82			70 - 130	30	
Toluene	ND	1.0	100	103	3.0	81			70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	107	109	1.9	85			70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	102	108	5.7	70			70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	98	101	3.0	74			70 - 130	30	

QA/QC Data

SDG I.D.: GCD62909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Trichloroethene	ND	5.0	101	106	4.8	83			70 - 130	30
Trichlorofluoromethane	ND	5.0	88	88	0.0	78			70 - 130	30
Trichlorotrifluoroethane	ND	5.0	94	100	6.2	81			70 - 130	30
Vinyl chloride	ND	5.0	103	105	1.9	92			70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0	100			70 - 130	30
% Bromofluorobenzene	95	%	100	101	1.0	94			70 - 130	30
% Dibromofluoromethane	99	%	98	99	1.0	103			70 - 130	30
% Toluene-d8	98	%	99	100	1.0	97			70 - 130	30

Comment:

The MSD is not reported for this LL soil batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD 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

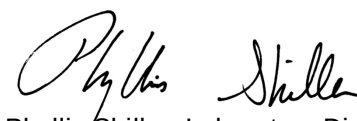
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
August 08, 2019

Thursday, August 08, 2019

Criteria: NJ: RC; NY: 375, 375GWP, 375RRS, 375RS

State: NY

Sample Criteria Exceedances Report

GCD62909 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD62909	\$8270SMRDP	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Direct Contact	600	190	500	200	ug/Kg
CD62909	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	520	260	500	500	ug/Kg
CD62909	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	520	260	500	500	ug/Kg
CD62909	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	520	260	500	500	ug/Kg
CD62909	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential	718	0.7	350	350	mg/Kg
CD62909	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential Restricted	718	0.7	400	400	mg/Kg
CD62909	BA-SMDP	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	718	0.7	350	350	mg/Kg
CD62909	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.49	0.03	0.18	0.18	mg/Kg
CD62909	PB-SMDP	Lead	NJ / Soil Remediation Standard / Res. Direct Contact	645	7.5	400	1	mg/Kg
CD62909	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	645	7.5	450	450	mg/Kg
CD62909	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	645	7.5	400	400	mg/Kg
CD62909	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	645	7.5	400	400	mg/Kg
CD62909	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	645	7.5	63	63	mg/Kg
CD62909	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	711	7.5	109	109	mg/Kg
CD62917	\$8270SMRDP	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Direct Contact	740	180	500	200	ug/Kg
CD62917	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	550	260	500	500	ug/Kg
CD62917	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	550	260	500	500	ug/Kg
CD62917	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	550	260	500	500	ug/Kg
CD62917	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	13.8	0.70	13	13	mg/Kg
CD62917	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	35.5	0.35	30		mg/Kg
CD62917	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	98.7	0.7	50	50	mg/kg
CD62917	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	0.84	0.07	0.73	0.73	mg/Kg
CD62917	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	0.84	0.07	0.81	0.81	mg/Kg
CD62917	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.84	0.07	0.81	0.81	mg/Kg
CD62917	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.84	0.07	0.18	0.18	mg/Kg
CD62917	PB-SMDP	Lead	NJ / Soil Remediation Standard / Res. Direct Contact	433	7.0	400	1	mg/Kg
CD62917	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	433	7.0	400	400	mg/Kg
CD62917	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	433	7.0	400	400	mg/Kg
CD62917	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	433	7.0	63	63	mg/Kg
CD62917	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	460	7.0	109	109	mg/Kg
CD62919	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	73.2	0.7	63	63	mg/Kg
CD62921	\$8270SMRDP	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Direct Contact	1000	180	500	200	ug/Kg
CD62921	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1200	250	1000	1000	ug/Kg
CD62921	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1200	250	1000	1000	ug/Kg
CD62921	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1200	250	1000	1000	ug/Kg
CD62921	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1200	250	1000	1000	ug/Kg
CD62921	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	700	250	500	500	ug/Kg
CD62921	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	250	1000	1000	ug/Kg
CD62921	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	700	250	500	500	ug/Kg
CD62921	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	250	1000	1000	ug/Kg

Thursday, August 08, 2019

Criteria: NJ: RC; NY: 375, 375GWP, 375RRS, 375RS

State: NY

Sample Criteria Exceedances Report

GCD62909 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD62921	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	250	1000	1000	ug/Kg
CD62921	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	700	250	500	500	ug/Kg
CD62921	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	970	250	800	800	ug/Kg
CD62921	PB-SMDP	Lead	NJ / Soil Remediation Standard / Res. Direct Contact	401	6.8	400	1	mg/Kg
CD62921	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	401	6.8	400	400	mg/Kg
CD62921	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	401	6.8	400	400	mg/Kg
CD62921	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	401	6.8	63	63	mg/Kg
CD62921	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	175	6.8	109	109	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance 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



Analysis Comments

August 08, 2019

SDG I.D.: GCD62909

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

PEST Narration

AU-ECD7 07/25/19-1: CD62912, CD62914, CD62916

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CD62916

Preceding CC 725A018 - None.

Succeeding CC 725A032 - Endosulfan I 25%H (20%)

Samples: CD62912, CD62914

Preceding CC 725A032 - Endosulfan I 25%H (20%)

Succeeding CC 725A044 - None.

AU-ECD7 07/26/19-1: CD62918, CD62920, CD62922, CD62923

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CD62918, CD62920, CD62922, CD62923

Preceding CC 726A005 - Endrin Ketone 23%H (20%)

Succeeding CC 726A021 - None.

SVOA Narration

CHEM04 07/24/19-1: CD62911, CD62915

The following Continuing Calibration compounds did not meet % deviation criteria: % 2,4,6-Tribromophenol 31%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.097 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM05 07/25/19-1: CD62912, CD62913, CD62914, CD62916, CD62917, CD62918, CD62919

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.050 (0.1), Hexachlorobenzene 0.090 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.045 (0.1), Hexachlorobenzene 0.088 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM19 07/25/19-1: CD62909, CD62910, CD62917, CD62921, CD62923

The following Initial Calibration compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane 0.298 (0.3), Bis(2-chloroethyl)ether 0.652 (0.7)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane 0.296 (0.3)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM19 07/30/19-2: CD62920



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



Analysis Comments

August 08, 2019

SDG I.D.: GCD62909

The following Initial Calibration compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane 0.298 (0.3), Bis(2-chloroethyl)ether 0.652 (0.7)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane 0.294 (0.3), Bis(2-chloroethyl)ether 0.555 (0.7), Hexachlorobenzene 0.099 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

VOA Narration

CHEM31 07/23/19-2: CD62909, CD62910, CD62911, CD62912, CD62913, CD62914, CD62915, CD62916, CD62918, CD62919, CD62920, CD62921, CD62922, CD62923, CD62925

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 28% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Acrolein 0.035 (0.05), Bromoform 0.099 (0.1), Tetrachloroethene 0.178 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Acrolein 0.036 (0.05)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM31 07/24/19-1: CD62917

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 28% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Acrolein 0.035 (0.05), Bromoform 0.099 (0.1), Tetrachloroethene 0.178 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Acrolein 0.034 (0.05)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



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

August 08, 2019

SDG I.D.: GCD62909

The samples in this delivery group were received at 3.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: Environmental Business Consultants
Address: 1808 Middle Country Road
Ridge, New York 11961

Project:	33 Franklin Street, Brooklyn
Report to:	EBC
Invoice to:	EBC
Phone #:	631.504.6000
Fax #:	631.924.2870

Data Delivery:
☐ Fax #:
☒ Email **File**

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification						
Sampler's Signature	Tony Balado	Date:	7/22/2019			
Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil B=Bulk L=Liquid						
PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request	
62909	SB2(0-2)	Soil	7/22/2019	9:25	X	X
62910	SB2(5-7)	Soil	7/22/2019	9:35	X	X
62911	SB3(0-2)	Soil	7/22/2019	12:11	X	X
62912	SB3(5-7)	Soil	7/22/2019	12:20	X	X
62913	SB4(0-2)	Soil	7/22/2019	11:15	X	X
62914	SB4(5-7)	Soil	7/22/2019	11:25	X	X
62915	SB6(0-2)	Soil	7/22/2019	7:53	X	X
62916	SB6(5-7)	Soil	7/22/2019	8:01	X	X
62917	SB7(0-2)	Soil	7/22/2019	10:41	X	X
62918	SB7(5-7)	Soil	7/22/2019	10:55	X	X
62919	SB8(0-2)	Soil	7/22/2019	8:45	X	X
62920	SB8(5-7)	Soil	7/22/2019	8:49	X	X
Relinquished by: [Signature]		Accrued by: [Signature]		Date:	7/23/2019	12:30
Comments, Special Requirements or Regulations:				Turnaround:	7-23-19	15:02
				☐ 1 Day*		
				☐ 2 Days*		
				☐ 3 Days*		
				☒ Standard		
				☐ Other		
				* SURCHARGE APPLIES		
State where samples were collected: NY						



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 545-0823
Client Services (860) 645-8726

Coolant: IPK ☒ ICE ☐ No ☐
Temp: 3.1 °C Pg 2 of 2

Data Delivery:
☐ Fax #:
☒ Email File

Customer: Environmental Business Consultants
Address: 1808 Middle Country Road
Ridge, New York 11961

Project: 33 Franklin Street, Brooklyn
Report to: EBC
Invoice to: EBC
Phone #: 631.504.6000
Fax #: 631.924.2870

Project P.O.:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification				
Sampler's Signature	Tony Balado	Date:	7/22/2019	
Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil B=Bulk L=Liquid				
PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
62921	SB9(0-2)	Soil	7/22/2019	9:55
62922	SB9(5-7)	Soil	7/22/2019	10:05
62923	Soil Duplicate	Soil	7/22/2019	
62924	Trip Blank HL	Soil	-	
62925	Trip Blank LL	Soil	-	

Analysis Request				
VOCS 8260	X	X	X	X
SVOCs 8270	X	X	X	X
PCBs 8082	X	X	X	X
TAL Metals 6010 and 7471	X	X	X	X
Soil YOC Vials (X) method (X) H2O	X	X	X	X
GL Soil container (8) oz	X	X	X	X
GL Soil container (4) oz	X	X	X	X
GL Amber 1000ml [As] [H2SO4]	X	X	X	X
PL H2SO4 [250ml] [500ml]	X	X	X	X
PL HNO3 [250ml] [500ml]	X	X	X	X
PL NaOH 250ml	X	X	X	X
Beakers Bottle	X	X	X	X

Relinquished by:  Accepted by: 

Date: 7/23/19 Time: 12:30

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

Comments, Special Requirements or Regulations:
* send empty enaved client 

State where samples were collected: NY

MA ☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

NY ☐ UUSCOs
☐ RRSCOs
☐ NJ Residential
☐ PA Regulated Fill
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

Direct Contact (Residential)
☐ GW
☐ Other

Data Format
☒ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ NY EZ EDD (ASP)

Data Package
☐ Tier II Checklist
☐ ASP B Deliverables*
☐ Phoenix Std Report
☐ Other

9cd62921

Makrina Nolan

From: Makrina Nolan
Sent: Tuesday, July 23, 2019 5:38 PM
To: 'rbennett@ebcincny.com'
Subject: 33 Franklin Street, Brooklyn

Importance: High

Good evening,

We received your samples today, with regards to the above referenced project. Unfortunately, the High Level trip blank was received empty and we will not be able to analyze it. Please let me know if you have any questions.

Sincerely,

Makrina Nolan
Client Service Representative
Phoenix Environmental Labs
587 Middle Turnpike East
Manchester, CT
860-645-1102



Tuesday, July 30, 2019

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

Project ID: 33 FRANKLIN ST BROOKLYN
SDG ID: GCD64983
Sample ID#s: CD64983 - CD64989

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. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
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
UT Lab Registration #CT00007
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



Sample Id Cross Reference

July 30, 2019

SDG I.D.: GCD64983

Project ID: 33 FRANKLIN ST BROOKLYN

Client Id	Lab Id	Matrix
SV 5	CD64983	AIR
SV 4	CD64984	AIR
SV 6	CD64985	AIR
SV 1	CD64986	AIR
SV 3	CD64987	AIR
SV 2	CD64988	AIR
SV 4	CD64989	AIR



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



Analysis Report

July 30, 2019

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.#:
Canister Id: 28577

Custody Information

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

Date

07/24/19
07/25/19

Time

9:59
16:10

Laboratory Data

SDG ID: GCD64983
Phoenix ID: CD64983

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SV 5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	07/26/19	KCA	1
1,2,4-Trimethylbenzene	7.90	0.204	38.8	1.00	07/26/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	07/26/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	07/26/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	07/26/19	KCA	1
1,3,5-Trimethylbenzene	2.75	0.204	13.5	1.00	07/26/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	07/26/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	07/26/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
4-Ethyltoluene	6.97	0.204	34.2	1.00	07/26/19	KCA	1
4-Isopropyltoluene	0.306	0.182	1.68	1.00	07/26/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
Acetone	37.7	0.421	89.5	1.00	07/26/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	07/26/19	KCA	1
Benzene	4.23	0.313	13.5	1.00	07/26/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	07/26/19	KCA	1

Client ID: SV 5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	07/26/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	07/26/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	07/26/19	KCA	1	
Carbon Disulfide	2.08	0.321	6.47	1.00	07/26/19	KCA	1	
Carbon Tetrachloride	0.751	0.032	4.72	0.20	07/26/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	07/26/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	07/26/19	KCA	1	
Chloroform	1.03	0.205	5.03	1.00	07/26/19	KCA	1	
Chloromethane	ND	0.485	ND	1.00	07/26/19	KCA	1	
Cis-1,2-Dichloroethene	0.106	0.051	0.42	0.20	07/26/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Cyclohexane	4.75	0.291	16.3	1.00	07/26/19	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	07/26/19	KCA	1	
Dichlorodifluoromethane	0.453	0.202	2.24	1.00	07/26/19	KCA	1	
Ethanol	113	2.66	213	5.01	07/26/19	KCA	5	1
Ethyl acetate	ND	0.278	ND	1.00	07/26/19	KCA	1	1
Ethylbenzene	6.23	0.230	27.0	1.00	07/26/19	KCA	1	
Heptane	5.75	0.244	23.6	1.00	07/26/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	07/26/19	KCA	1	
Hexane	7.89	0.284	27.8	1.00	07/26/19	KCA	1	
Isopropylalcohol	1.72	0.407	4.23	1.00	07/26/19	KCA	1	
Isopropylbenzene	0.701	0.204	3.44	1.00	07/26/19	KCA	1	
m,p-Xylene	20.1	0.230	87.2	1.00	07/26/19	KCA	1	
Methyl Ethyl Ketone	7.22	0.339	21.3	1.00	07/26/19	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	07/26/19	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	07/26/19	KCA	1	
n-Butylbenzene	0.664	0.182	3.64	1.00	07/26/19	KCA	1	1
o-Xylene	8.02	0.230	34.8	1.00	07/26/19	KCA	1	
Propylene	ND	0.581	ND	1.00	07/26/19	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	07/26/19	KCA	1	1
Styrene	1.03	0.235	4.38	1.00	07/26/19	KCA	1	
Tetrachloroethene	8.86	0.037	60.1	0.25	07/26/19	KCA	1	
Tetrahydrofuran	ND	0.339	ND	1.00	07/26/19	KCA	1	1
Toluene	24.6	0.266	92.6	1.00	07/26/19	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	07/26/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Trichloroethene	2.53	0.037	13.6	0.20	07/26/19	KCA	1	
Trichlorofluoromethane	1.45	0.178	8.14	1.00	07/26/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	07/26/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	07/26/19	KCA	1	
<u>QA/OC Surrogates/Internals</u>								
% Bromofluorobenzene	92	%	92	%	07/26/19	KCA	1	
% IS-1,4-Difluorobenzene	87	%	87	%	07/26/19	KCA	1	
% IS-Bromochloromethane	87	%	87	%	07/26/19	KCA	1	
% IS-Chlorobenzene-d5	83	%	83	%	07/26/19	KCA	1	
% Bromofluorobenzene (5x)	93	%	93	%	07/26/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	99	%	99	%	07/26/19	KCA	5	
% IS-Bromochloromethane (5x)	98	%	98	%	07/26/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	95	%	95	%	07/26/19	KCA	5	

Client ID: SV 5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 30, 2019

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 30, 2019

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.#:
Canister Id: 16005

Custody Information

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

Date

07/24/19
07/25/19

Time

9:37
16:10

Laboratory Data

SDG ID: GCD64983
Phoenix ID: CD64984

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SV 4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,1-Trichloroethane	22.3	0.183	122	1.00	07/26/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	07/26/19	KCA	1
1,2,4-Trimethylbenzene	8.64	0.204	42.4	1.00	07/26/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	07/26/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	07/26/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	07/26/19	KCA	1
1,3,5-Trimethylbenzene	3.07	0.204	15.1	1.00	07/26/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	07/26/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	07/26/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
4-Ethyltoluene	7.71	0.204	37.9	1.00	07/26/19	KCA	1
4-Isopropyltoluene	0.321	0.182	1.76	1.00	07/26/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
Acetone	28.4	0.421	67.4	1.00	07/26/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	07/26/19	KCA	1
Benzene	2.06	0.313	6.58	1.00	07/26/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	07/26/19	KCA	1

Client ID: SV 4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	07/26/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	07/26/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	07/26/19	KCA	1	
Carbon Disulfide	1.21	0.321	3.77	1.00	07/26/19	KCA	1	
Carbon Tetrachloride	ND	0.032	ND	0.20	07/26/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	07/26/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	07/26/19	KCA	1	
Chloroform	0.248	0.205	1.21	1.00	07/26/19	KCA	1	
Chloromethane	ND	0.485	ND	1.00	07/26/19	KCA	1	
Cis-1,2-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Cyclohexane	2.27	0.291	7.81	1.00	07/26/19	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	07/26/19	KCA	1	
Dichlorodifluoromethane	1.50	0.202	7.41	1.00	07/26/19	KCA	1	
Ethanol	86.7	2.66	163	5.01	07/26/19	KCA	5	1
Ethyl acetate	ND	0.278	ND	1.00	07/26/19	KCA	1	1
Ethylbenzene	7.07	0.230	30.7	1.00	07/26/19	KCA	1	
Heptane	4.22	0.244	17.3	1.00	07/26/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	07/26/19	KCA	1	
Hexane	4.37	0.284	15.4	1.00	07/26/19	KCA	1	
Isopropylalcohol	1.30	0.407	3.19	1.00	07/26/19	KCA	1	
Isopropylbenzene	0.799	0.204	3.93	1.00	07/26/19	KCA	1	
m,p-Xylene	23.6	0.230	102	1.00	07/26/19	KCA	1	
Methyl Ethyl Ketone	4.43	0.339	13.1	1.00	07/26/19	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	07/26/19	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	07/26/19	KCA	1	
n-Butylbenzene	0.694	0.182	3.81	1.00	07/26/19	KCA	1	1
o-Xylene	9.51	0.230	41.3	1.00	07/26/19	KCA	1	
Propylene	ND	0.581	ND	1.00	07/26/19	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	07/26/19	KCA	1	1
Styrene	0.966	0.235	4.11	1.00	07/26/19	KCA	1	
Tetrachloroethene	4.86	0.037	32.9	0.25	07/26/19	KCA	1	
Tetrahydrofuran	ND	0.339	ND	1.00	07/26/19	KCA	1	1
Toluene	22.0	0.266	82.9	1.00	07/26/19	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	07/26/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Trichloroethene	0.187	0.037	1.00	0.20	07/26/19	KCA	1	
Trichlorofluoromethane	0.461	0.178	2.59	1.00	07/26/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	07/26/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	07/26/19	KCA	1	
<u>QA/OC Surrogates/Internals</u>								
% Bromofluorobenzene	90	%	90	%	07/26/19	KCA	1	
% IS-1,4-Difluorobenzene	98	%	98	%	07/26/19	KCA	1	
% IS-Bromochloromethane	99	%	99	%	07/26/19	KCA	1	
% IS-Chlorobenzene-d5	88	%	88	%	07/26/19	KCA	1	
% Bromofluorobenzene (5x)	90	%	90	%	07/26/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	105	%	105	%	07/26/19	KCA	5	
% IS-Bromochloromethane (5x)	103	%	103	%	07/26/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	100	%	100	%	07/26/19	KCA	5	

Client ID: SV 4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

July 30, 2019

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 30, 2019

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.#:
Canister Id: 23330

Custody Information

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

Date

07/24/19
07/25/19

Time

9:35
16:10

Laboratory Data

SDG ID: GCD64983
Phoenix ID: CD64985

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SV 6

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,1-Trichloroethane	9.24	0.183	50.4	1.00	07/26/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	07/26/19	KCA	1
1,2,4-Trimethylbenzene	7.79	0.204	38.3	1.00	07/26/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	07/26/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	07/26/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	07/26/19	KCA	1
1,3,5-Trimethylbenzene	2.69	0.204	13.2	1.00	07/26/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	07/26/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	07/26/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
4-Ethyltoluene	6.76	0.204	33.2	1.00	07/26/19	KCA	1
4-Isopropyltoluene	0.294	0.182	1.61	1.00	07/26/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
Acetone	24.8	0.421	58.9	1.00	07/26/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	07/26/19	KCA	1
Benzene	1.62	0.313	5.17	1.00	07/26/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	07/26/19	KCA	1

Client ID: SV 6

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	07/26/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	07/26/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	07/26/19	KCA	1	
Carbon Disulfide	0.891	0.321	2.77	1.00	07/26/19	KCA	1	
Carbon Tetrachloride	0.046	0.032	0.29	0.20	07/26/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	07/26/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	07/26/19	KCA	1	
Chloroform	ND	0.205	ND	1.00	07/26/19	KCA	1	
Chloromethane	ND	0.485	ND	1.00	07/26/19	KCA	1	
Cis-1,2-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Cyclohexane	1.51	0.291	5.19	1.00	07/26/19	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	07/26/19	KCA	1	
Dichlorodifluoromethane	0.480	0.202	2.37	1.00	07/26/19	KCA	1	
Ethanol	86.9	2.66	164	5.01	07/26/19	KCA	5	1
Ethyl acetate	ND	0.278	ND	1.00	07/26/19	KCA	1	1
Ethylbenzene	5.41	0.230	23.5	1.00	07/26/19	KCA	1	
Heptane	2.57	0.244	10.5	1.00	07/26/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	07/26/19	KCA	1	
Hexane	2.41	0.284	8.49	1.00	07/26/19	KCA	1	
Isopropylalcohol	1.29	0.407	3.17	1.00	07/26/19	KCA	1	
Isopropylbenzene	0.652	0.204	3.20	1.00	07/26/19	KCA	1	
m,p-Xylene	18.7	0.230	81.1	1.00	07/26/19	KCA	1	
Methyl Ethyl Ketone	3.44	0.339	10.1	1.00	07/26/19	KCA	1	
Methyl tert-butyl ether(MTBE)	1.35	0.278	4.86	1.00	07/26/19	KCA	1	
Methylene Chloride	0.942	0.864	3.27	3.00	07/26/19	KCA	1	
n-Butylbenzene	0.656	0.182	3.60	1.00	07/26/19	KCA	1	1
o-Xylene	7.54	0.230	32.7	1.00	07/26/19	KCA	1	
Propylene	0.806	0.581	1.39	1.00	07/26/19	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	07/26/19	KCA	1	1
Styrene	0.864	0.235	3.68	1.00	07/26/19	KCA	1	
Tetrachloroethene	1.13	0.037	7.66	0.25	07/26/19	KCA	1	
Tetrahydrofuran	2.95	0.339	8.69	1.00	07/26/19	KCA	1	1
Toluene	16.6	0.266	62.5	1.00	07/26/19	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	07/26/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Trichloroethene	0.244	0.037	1.31	0.20	07/26/19	KCA	1	
Trichlorofluoromethane	0.279	0.178	1.57	1.00	07/26/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	07/26/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	07/26/19	KCA	1	
<u>QA/OC Surrogates/Internals</u>								
% Bromofluorobenzene	90	%	90	%	07/26/19	KCA	1	
% IS-1,4-Difluorobenzene	104	%	104	%	07/26/19	KCA	1	
% IS-Bromochloromethane	104	%	104	%	07/26/19	KCA	1	
% IS-Chlorobenzene-d5	91	%	91	%	07/26/19	KCA	1	
% Bromofluorobenzene (5x)	92	%	92	%	07/26/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	109	%	109	%	07/26/19	KCA	5	
% IS-Bromochloromethane (5x)	109	%	109	%	07/26/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	102	%	102	%	07/26/19	KCA	5	

Client ID: SV 6

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

July 30, 2019

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 30, 2019

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.#:
Canister Id: 172

Custody Information

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

Date

07/24/19
07/25/19

Time

9:43
16:10

Laboratory Data

SDG ID: GCD64983
Phoenix ID: CD64986

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SV 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	07/26/19	KCA	1
1,2,4-Trimethylbenzene	8.92	0.204	43.8	1.00	07/26/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	07/26/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	07/26/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	07/26/19	KCA	1
1,3,5-Trimethylbenzene	3.41	0.204	16.8	1.00	07/26/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	07/26/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	07/26/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
4-Ethyltoluene	8.66	0.204	42.5	1.00	07/26/19	KCA	1
4-Isopropyltoluene	0.285	0.182	1.56	1.00	07/26/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
Acetone	22.9	0.421	54.4	1.00	07/26/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	07/26/19	KCA	1
Benzene	2.74	0.313	8.75	1.00	07/26/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	07/26/19	KCA	1

Client ID: SV 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	07/26/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	07/26/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	07/26/19	KCA	1	
Carbon Disulfide	1.54	0.321	4.79	1.00	07/26/19	KCA	1	
Carbon Tetrachloride	ND	0.032	ND	0.20	07/26/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	07/26/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	07/26/19	KCA	1	
Chloroform	ND	0.205	ND	1.00	07/26/19	KCA	1	
Chloromethane	ND	0.485	ND	1.00	07/26/19	KCA	1	
Cis-1,2-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Cyclohexane	2.38	0.291	8.19	1.00	07/26/19	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	07/26/19	KCA	1	
Dichlorodifluoromethane	1.37	0.202	6.77	1.00	07/26/19	KCA	1	
Ethanol	72.4	2.66	136	5.01	07/26/19	KCA	5	1
Ethyl acetate	ND	0.278	ND	1.00	07/26/19	KCA	1	1
Ethylbenzene	8.95	0.230	38.8	1.00	07/26/19	KCA	1	
Heptane	3.70	0.244	15.2	1.00	07/26/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	07/26/19	KCA	1	
Hexane	3.15	0.284	11.1	1.00	07/26/19	KCA	1	
Isopropylalcohol	1.14	0.407	2.80	1.00	07/26/19	KCA	1	
Isopropylbenzene	0.949	0.204	4.66	1.00	07/26/19	KCA	1	
m,p-Xylene	30.6	0.230	133	1.00	07/26/19	KCA	1	
Methyl Ethyl Ketone	ND	0.339	ND	1.00	07/26/19	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	07/26/19	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	07/26/19	KCA	1	
n-Butylbenzene	0.599	0.182	3.29	1.00	07/26/19	KCA	1	1
o-Xylene	12.5	0.230	54.2	1.00	07/26/19	KCA	1	
Propylene	ND	0.581	ND	1.00	07/26/19	KCA	1	1
sec-Butylbenzene	0.291	0.182	1.60	1.00	07/26/19	KCA	1	1
Styrene	0.836	0.235	3.56	1.00	07/26/19	KCA	1	
Tetrachloroethene	ND	0.037	ND	0.25	07/26/19	KCA	1	
Tetrahydrofuran	ND	0.339	ND	1.00	07/26/19	KCA	1	1
Toluene	24.6	0.266	92.6	1.00	07/26/19	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	07/26/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Trichloroethene	ND	0.037	ND	0.20	07/26/19	KCA	1	
Trichlorofluoromethane	0.402	0.178	2.26	1.00	07/26/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	07/26/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	07/26/19	KCA	1	
<u>QA/OC Surrogates/Internals</u>								
% Bromofluorobenzene	89	%	89	%	07/26/19	KCA	1	
% IS-1,4-Difluorobenzene	101	%	101	%	07/26/19	KCA	1	
% IS-Bromochloromethane	100	%	100	%	07/26/19	KCA	1	
% IS-Chlorobenzene-d5	90	%	90	%	07/26/19	KCA	1	
% Bromofluorobenzene (5x)	92	%	92	%	07/26/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	108	%	108	%	07/26/19	KCA	5	
% IS-Bromochloromethane (5x)	106	%	106	%	07/26/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	100	%	100	%	07/26/19	KCA	5	

Client ID: SV 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

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Phyllis Shiller, Laboratory Director

July 30, 2019

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 30, 2019

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.#:
Canister Id: 28600

Custody Information

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

Date

07/24/19 10:00
07/25/19 16:10

Time

Laboratory Data

SDG ID: GCD64983
Phoenix ID: CD64987

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SV 3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	07/26/19	KCA	1
1,2,4-Trimethylbenzene	8.44	0.204	41.5	1.00	07/26/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	07/26/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	07/26/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	07/26/19	KCA	1
1,3,5-Trimethylbenzene	2.93	0.204	14.4	1.00	07/26/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	07/26/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	07/26/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
4-Ethyltoluene	7.23	0.204	35.5	1.00	07/26/19	KCA	1
4-Isopropyltoluene	0.307	0.182	1.68	1.00	07/26/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
Acetone	27.5	0.421	65.3	1.00	07/26/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	07/26/19	KCA	1
Benzene	1.51	0.313	4.82	1.00	07/26/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	07/26/19	KCA	1

Client ID: SV 3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	07/26/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	07/26/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	07/26/19	KCA	1	
Carbon Disulfide	6.64	0.321	20.7	1.00	07/26/19	KCA	1	
Carbon Tetrachloride	ND	0.032	ND	0.20	07/26/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	07/26/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	07/26/19	KCA	1	
Chloroform	ND	0.205	ND	1.00	07/26/19	KCA	1	
Chloromethane	ND	0.485	ND	1.00	07/26/19	KCA	1	
Cis-1,2-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Cyclohexane	2.07	0.291	7.12	1.00	07/26/19	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	07/26/19	KCA	1	
Dichlorodifluoromethane	0.401	0.202	1.98	1.00	07/26/19	KCA	1	
Ethanol	85.6	2.66	161	5.01	07/26/19	KCA	5	1
Ethyl acetate	ND	0.278	ND	1.00	07/26/19	KCA	1	1
Ethylbenzene	5.91	0.230	25.6	1.00	07/26/19	KCA	1	
Heptane	2.64	0.244	10.8	1.00	07/26/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	07/26/19	KCA	1	
Hexane	1.95	0.284	6.87	1.00	07/26/19	KCA	1	
Isopropylalcohol	1.61	0.407	3.96	1.00	07/26/19	KCA	1	
Isopropylbenzene	0.743	0.204	3.65	1.00	07/26/19	KCA	1	
m,p-Xylene	20.0	0.230	86.8	1.00	07/26/19	KCA	1	
Methyl Ethyl Ketone	10.2	0.339	30.1	1.00	07/26/19	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	07/26/19	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	07/26/19	KCA	1	
n-Butylbenzene	0.715	0.182	3.92	1.00	07/26/19	KCA	1	1
o-Xylene	8.47	0.230	36.8	1.00	07/26/19	KCA	1	
Propylene	1.28	0.581	2.20	1.00	07/26/19	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	07/26/19	KCA	1	1
Styrene	0.797	0.235	3.39	1.00	07/26/19	KCA	1	
Tetrachloroethene	1.11	0.037	7.52	0.25	07/26/19	KCA	1	
Tetrahydrofuran	ND	0.339	ND	1.00	07/26/19	KCA	1	1
Toluene	16.7	0.266	62.9	1.00	07/26/19	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	07/26/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Trichloroethene	0.061	0.037	0.33	0.20	07/26/19	KCA	1	
Trichlorofluoromethane	0.478	0.178	2.68	1.00	07/26/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	07/26/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	07/26/19	KCA	1	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene	89	%	89	%	07/26/19	KCA	1	
% IS-1,4-Difluorobenzene	101	%	101	%	07/26/19	KCA	1	
% IS-Bromochloromethane	99	%	99	%	07/26/19	KCA	1	
% IS-Chlorobenzene-d5	89	%	89	%	07/26/19	KCA	1	
% Bromofluorobenzene (5x)	91	%	91	%	07/26/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	109	%	109	%	07/26/19	KCA	5	
% IS-Bromochloromethane (5x)	107	%	107	%	07/26/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	101	%	101	%	07/26/19	KCA	5	

Client ID: SV 3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

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Phyllis Shiller, Laboratory Director

July 30, 2019

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 30, 2019

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.#:
Canister Id: 468

Custody Information

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

Date

07/24/19
07/25/19

Time

9:57
16:10

Laboratory Data

SDG ID: GCD64983
Phoenix ID: CD64988

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SV 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	07/26/19	KCA	1
1,2,4-Trimethylbenzene	8.07	0.204	39.6	1.00	07/26/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	07/26/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	07/26/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	07/26/19	KCA	1
1,3,5-Trimethylbenzene	2.71	0.204	13.3	1.00	07/26/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	07/26/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	07/26/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
4-Ethyltoluene	6.66	0.204	32.7	1.00	07/26/19	KCA	1
4-Isopropyltoluene	0.346	0.182	1.90	1.00	07/26/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
Acetone	78.6	2.53	187	6.01	07/27/19	KCA	6
Acrylonitrile	ND	0.461	ND	1.00	07/26/19	KCA	1
Benzene	1.24	0.313	3.96	1.00	07/26/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	07/26/19	KCA	1

Client ID: SV 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	07/26/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	07/26/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	07/26/19	KCA	1	
Carbon Disulfide	0.994	0.321	3.09	1.00	07/26/19	KCA	1	
Carbon Tetrachloride	0.137	0.032	0.86	0.20	07/26/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	07/26/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	07/26/19	KCA	1	
Chloroform	1.94	0.205	9.47	1.00	07/26/19	KCA	1	
Chloromethane	ND	0.485	ND	1.00	07/26/19	KCA	1	
Cis-1,2-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Cyclohexane	1.88	0.291	6.47	1.00	07/26/19	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	07/26/19	KCA	1	
Dichlorodifluoromethane	0.405	0.202	2.00	1.00	07/26/19	KCA	1	
Ethanol	165	3.19	311	6.01	07/27/19	KCA	6	1
Ethyl acetate	ND	0.278	ND	1.00	07/26/19	KCA	1	1
Ethylbenzene	4.85	0.230	21.0	1.00	07/26/19	KCA	1	
Heptane	3.26	0.244	13.4	1.00	07/26/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	07/26/19	KCA	1	
Hexane	3.25	0.284	11.4	1.00	07/26/19	KCA	1	
Isopropylalcohol	2.15	0.407	5.28	1.00	07/26/19	KCA	1	
Isopropylbenzene	0.657	0.204	3.23	1.00	07/26/19	KCA	1	
m,p-Xylene	15.9	0.230	69.0	1.00	07/26/19	KCA	1	
Methyl Ethyl Ketone	7.45	0.339	22.0	1.00	07/26/19	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	07/26/19	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	07/26/19	KCA	1	
n-Butylbenzene	0.796	0.182	4.37	1.00	07/26/19	KCA	1	1
o-Xylene	6.77	0.230	29.4	1.00	07/26/19	KCA	1	
Propylene	6.81	0.581	11.7	1.00	07/26/19	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	07/26/19	KCA	1	1
Styrene	1.07	0.235	4.56	1.00	07/26/19	KCA	1	
Tetrachloroethene	2.08	0.037	14.1	0.25	07/26/19	KCA	1	
Tetrahydrofuran	5.47	0.339	16.1	1.00	07/26/19	KCA	1	1
Toluene	15.0	0.266	56.5	1.00	07/26/19	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	07/26/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Trichloroethene	0.231	0.037	1.24	0.20	07/26/19	KCA	1	
Trichlorofluoromethane	0.375	0.178	2.11	1.00	07/26/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	07/26/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	07/26/19	KCA	1	
<u>QA/OC Surrogates/Internals</u>								
% Bromofluorobenzene	91	%	91	%	07/26/19	KCA	1	
% IS-1,4-Difluorobenzene	86	%	86	%	07/26/19	KCA	1	
% IS-Bromochloromethane	85	%	85	%	07/26/19	KCA	1	
% IS-Chlorobenzene-d5	78	%	78	%	07/26/19	KCA	1	
% Bromofluorobenzene (6x)	92	%	92	%	07/27/19	KCA	6	
% IS-1,4-Difluorobenzene (6x)	98	%	98	%	07/27/19	KCA	6	
% IS-Bromochloromethane (6x)	94	%	94	%	07/27/19	KCA	6	
% IS-Chlorobenzene-d5 (6x)	93	%	93	%	07/27/19	KCA	6	

Client ID: SV 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 30, 2019

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 30, 2019

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.#:
Canister Id: 218

Custody Information

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

Date

07/24/19
07/25/19

Time

9:50
16:10

Laboratory Data

SDG ID: GCD64983
Phoenix ID: CD64989

Project ID: 33 FRANKLIN ST BROOKLYN
Client ID: SV 4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,1-Trichloroethane	2.08	0.183	11.3	1.00	07/26/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	07/26/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	07/26/19	KCA	1
1,2,4-Trimethylbenzene	10.4	0.204	51.1	1.00	07/26/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	07/26/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	07/26/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	07/26/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	07/26/19	KCA	1
1,3,5-Trimethylbenzene	3.94	0.204	19.4	1.00	07/26/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	07/26/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	07/26/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	07/26/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
4-Ethyltoluene	9.00	0.204	44.2	1.00	07/26/19	KCA	1
4-Isopropyltoluene	0.458	0.182	2.51	1.00	07/26/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	07/26/19	KCA	1
Acetone	35.5	0.421	84.3	1.00	07/26/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	07/26/19	KCA	1
Benzene	8.67	0.313	27.7	1.00	07/26/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	07/26/19	KCA	1

Client ID: SV 4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	07/26/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	07/26/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	07/26/19	KCA	1	
Carbon Disulfide	3.73	0.321	11.6	1.00	07/26/19	KCA	1	
Carbon Tetrachloride	0.043	0.032	0.27	0.20	07/26/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	07/26/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	07/26/19	KCA	1	
Chloroform	ND	0.205	ND	1.00	07/26/19	KCA	1	
Chloromethane	1.10	0.485	2.27	1.00	07/26/19	KCA	1	
Cis-1,2-Dichloroethene	ND	0.051	ND	0.20	07/26/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Cyclohexane	5.97	0.291	20.5	1.00	07/26/19	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	07/26/19	KCA	1	
Dichlorodifluoromethane	1.97	0.202	9.7	1.00	07/26/19	KCA	1	
Ethanol	69.1	E 0.531	130	1.00	07/26/19	KCA	1	1
Ethyl acetate	ND	0.278	ND	1.00	07/26/19	KCA	1	1
Ethylbenzene	5.94	0.230	25.8	1.00	07/26/19	KCA	1	
Heptane	5.30	0.244	21.7	1.00	07/26/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	07/26/19	KCA	1	
Hexane	13.6	0.284	47.9	1.00	07/26/19	KCA	1	
Isopropylalcohol	1.51	0.407	3.71	1.00	07/26/19	KCA	1	
Isopropylbenzene	1.01	0.204	4.96	1.00	07/26/19	KCA	1	
m,p-Xylene	25.2	0.230	109	1.00	07/26/19	KCA	1	
Methyl Ethyl Ketone	8.45	0.339	24.9	1.00	07/26/19	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	07/26/19	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	07/26/19	KCA	1	
n-Butylbenzene	0.792	0.182	4.34	1.00	07/26/19	KCA	1	1
o-Xylene	14.0	0.230	60.8	1.00	07/26/19	KCA	1	
Propylene	17.9	0.581	30.8	1.00	07/26/19	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	07/26/19	KCA	1	1
Styrene	0.948	0.235	4.04	1.00	07/26/19	KCA	1	
Tetrachloroethene	1.34	0.037	9.08	0.25	07/26/19	KCA	1	
Tetrahydrofuran	ND	0.339	ND	1.00	07/26/19	KCA	1	1
Toluene	17.2	0.266	64.8	1.00	07/26/19	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	07/26/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	07/26/19	KCA	1	
Trichloroethene	0.522	0.037	2.80	0.20	07/26/19	KCA	1	
Trichlorofluoromethane	ND	0.178	ND	1.00	07/26/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	07/26/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	07/26/19	KCA	1	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene	102	%	102	%	07/26/19	KCA	1	
% IS-1,4-Difluorobenzene	84	%	84	%	07/26/19	KCA	1	
% IS-Bromochloromethane	83	%	83	%	07/26/19	KCA	1	
% IS-Chlorobenzene-d5	76	%	76	%	07/26/19	KCA	1	

Client ID: SV 4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (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 at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

July 30, 2019

Reviewed and Released by: Sarah Bell, Project Manager



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



Canister Sampling Information

July 30, 2019

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

Location Code: EBC

SDG I.D.: GCD64983

Project ID: 33 FRANKLIN ST BROOKLYN

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SV 5	CD64983	28577	6.0L	0250	07/22/19	-30	-4	43	42	2.4	-29	-4	07/24/19 7:54	07/24/19 9:59
SV 4	CD64984	16005	6.0L	2875	07/22/19	-30	-4	43	45	4.5	-30	-5	07/24/19 7:42	07/24/19 9:31
SV 6	CD64985	23330	6.0L	7016	07/22/19	-30	-5	43	42	2.4	-29	-5	07/24/19 7:39	07/24/19 9:35
SV 1	CD64986	172	6.0L	3220	07/22/19	-30	-5	43	43	0.0	-30	-5	07/24/19 7:45	07/24/19 9:47
SV 3	CD64987	28600	6.0L	0162	07/22/19	-30	-4	43	44	2.3	-29	-5	07/24/19 7:57	07/24/19 10:00
SV 2	CD64988	468	6.0L	5539	07/22/19	-30	-3	43	43	0.0	-30	-4	07/24/19 7:51	07/24/19 9:57
SV 4	CD64989	218	6.0L	3408	07/22/19	-30	-2	43	44	2.3	-30	-3	07/24/19 7:48	07/24/19 9:50



Environmental Laboratories, Inc.
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QA/QC Report

July 30, 2019

QA/QC Data

SDG I.D.: GCD64983

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits

QA/QC Batch 489684 (ppbv), QC Sample No: CD64983 (CD64983 (1X, 5X) , CD64984 (1X, 5X) , CD64985 (1X, 5X) , CD64986 (1X, 5X) , CD64987 (1X, 5X))

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	98	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	97	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	98	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	86	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	112	38.8	39.9	7.90	8.13	2.9	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	95	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	109	13.5	13.7	2.75	2.79	1.4	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	85	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	99	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	105	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	109	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	106	34.2	34.1	6.97	6.95	0.3	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	111	1.68	1.67	0.306	0.304	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	93	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	81	89.5	83.1	37.7	35.0	7.4	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	95	13.5	13.5	4.23	4.24	0.2	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	111	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	93	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	96	6.47	6.29	2.08	2.02	2.9	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	103	4.72	4.48	0.751	0.713	5.2	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	104	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	105	5.03	5.03	1.03	1.03	0.0	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	83	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	106	0.42	ND	0.106	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	104	16.3	15.8	4.75	4.60	3.2	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	101	2.24	1.92	0.453	0.388	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCD64983

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethanol	ND	0.530	ND	1.00	98	171 E	164	90.7 E	87.2	3.9	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	103	27.0	27.3	6.23	6.29	1.0	70 - 130	25
Heptane	ND	0.240	ND	0.98	91	23.6	22.4	5.75	5.48	4.8	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	111	27.8	26.5	7.89	7.53	4.7	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	81	4.23	3.96	1.72	1.61	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	115	3.44	3.57	0.701	0.726	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	111	87.2	89.0	20.1	20.5	2.0	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	99	21.3	19.4	7.22	6.58	9.3	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	98	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	94	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	104	3.64	3.86	0.664	0.704	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	117	34.8	35.2	8.02	8.11	1.1	70 - 130	25
Propylene	ND	0.580	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	112	4.38	4.43	1.03	1.04	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	105	60.1	58.8	8.86	8.68	2.1	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	111	92.6	92.3	24.6	24.5	0.4	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	95	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	108	13.5	13.7	2.52	2.55	1.2	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	93	8.14	7.69	1.45	1.37	5.7	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	89	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	93	%	93	%	102	92	92	92	92	NC	70 - 130	25
% IS-1,4-Difluorobenzene	118	%	118	%	82	87	92	87	92	NC	60 - 140	25
% IS-Bromochloromethane	122	%	122	%	75	87	92	87	92	NC	60 - 140	25
% IS-Chlorobenzene-d5	113	%	113	%	84	83	85	83	85	NC	60 - 140	25

QA/QC Batch 489788 (ppbv), QC Sample No: CD64988 (CD64988, CD64989)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	98	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	94	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	94	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	98	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	95	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	92	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	85	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	110	39.6	39.3	8.07	8.00	0.9	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	93	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	91	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	109	13.3	13.3	2.71	2.71	0.0	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	78	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	100	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	107	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	104	32.7	32.6	6.66	6.63	0.5	70 - 130	25

QA/QC Data

SDG I.D.: GCD64983

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
4-Isopropyltoluene	ND	0.180	ND	0.99	111	1.90	1.78	0.346	0.324	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	85	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	71	113	100	47.5	42.3	11.6	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	83	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	91	3.96	3.90	1.24	1.22	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	109	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	91	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	94	3.09	2.98	0.994	0.959	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	100	0.86	0.77	0.137	0.123	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	90	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	100	9.47	8.88	1.94	1.82	6.4	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	77	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	96	6.47	6.05	1.88	1.76	6.6	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	103	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	95	2.00	1.80	0.405	0.365	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	94	213 E	201	113 E	107	5.5	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	88	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	101	21.0	21.3	4.85	4.91	1.2	70 - 130	25
Heptane	ND	0.240	ND	0.98	84	13.3	12.1	3.25	2.95	9.7	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	102	11.4	10.8	3.25	3.08	5.4	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	76	5.28	ND	2.15	ND	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	113	3.23	3.25	0.657	0.662	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	109	69.0	69.9	15.9	16.1	1.3	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	97	22.0	20.0	7.45	6.78	9.4	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	94	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	85	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	104	4.37	4.20	0.796	0.765	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	116	29.4	29.6	6.77	6.83	0.9	70 - 130	25
Propylene	ND	0.580	ND	1.00	92	11.7	11.0	6.81	6.37	6.7	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	111	4.56	4.73	1.07	1.11	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	104	14.1	13.3	2.08	1.96	5.9	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	84	16.1	14.6	5.47	4.96	9.8	70 - 130	25
Toluene	ND	0.270	ND	1.02	109	56.5	55.0	15.0	14.6	2.7	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	89	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	105	1.24	1.00	0.231	0.187	21.1	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	88	2.11	1.71	0.375	0.304	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	83	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	93	%	93	%	101	91	90	91	90	NC	70 - 130	25
% IS-1,4-Difluorobenzene	112	%	112	%	80	86	94	86	94	NC	60 - 140	25
% IS-Bromochloromethane	121	%	121	%	75	85	92	85	92	NC	60 - 140	25
% IS-Chlorobenzene-d5	105	%	105	%	81	78	81	78	81	NC	60 - 140	25

QA/QC Data

SDG I.D.: GCD64983

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits

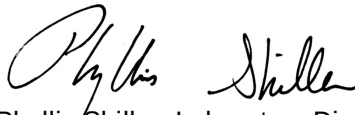
QA/QC Batch 489867 (ppbv), QC Sample No: CD65937 (CD64988 (6X))

Volatiles

Acetone	ND	0.420	ND	1.00	79	37.0	32.8	15.6	13.8	12.2	70 - 130	25
Ethanol	ND	0.530	ND	1.00	98	211 E	190	112 E	101	10.3	70 - 130	25
% Bromofluorobenzene	91	%	91	%	100	92	90	92	90	NC	70 - 130	25
% IS-1,4-Difluorobenzene	118	%	118	%	83	82	93	82	93	NC	60 - 140	25
% IS-Bromochloromethane	119	%	119	%	74	82	91	82	91	NC	60 - 140	25
% IS-Chlorobenzene-d5	113	%	113	%	83	89	96	89	96	NC	60 - 140	25

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
 July 30, 2019

Tuesday, July 30, 2019

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCD64983 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance 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



Analysis Comments

July 30, 2019

SDG I.D.: GCD64983

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



507 East Middle Turnpike P.O. Box 370, Manchester, CT 06040
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CHAIN OF CUSTODY RECORD AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. #

Page 1 of

Data Delivery:

☐ Fax #:

☒ Email: file

☐ Phone #:

Report to: Tony Balado

Customer: zec

Address:

Invoice to:

Project Name: 33 Franklin St. Brooklyn

Requested Deliverable:

RCP ☐ ASP CAT B ☐

MCP ☐ NJ Deliverables ☐

State where samples collected: NY

Sampled by: Tony Balado

Phoenix ID #	Client Sample ID	THIS SECTION FOR LAB USE ONLY										Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)				
64983	SV5	28561	6.0	-30	-4	390	43	7:54	9:59	7-24-14	-29	-4	X		X	
64984	SV7	28577			-4	0250		7:42	9:37	7-24-14	-30	-5	X		X	
64985	SV6	16005			-5	2875		7:39	9:35	7-24-14	-29	-5	X		X	
64986	SV1	23330			-5	7016		7:45	9:47	7-24-14	-30	-5	X		X	
64987	SV3	172			-4	3300		7:53	10:00	7-24-14	-29	-5	X		X	
64988	SV2	28600			-3	0162		7:51	9:57	7-24-14	-30	-4	X		X	
64989	SV4	468			-2	6639		7:48	9:50	7-24-14	-30	-3	X		X	
		218				3408										

Relinquished by:

Accepted by:

Date:

Time:

Data Format:

Excel ☐

Equis ☐

Other ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

(8) (60) (atp)

Requested Criteria

Turnaround Time:

☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☒ Standard

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 listed on the back of this document.

Quote Number:

Signature:

Date: