September 7, 2018

Yaakov Shapiro
Construction Administrator
Atlantic Classon Group, LLC
936 Fulton Street
Brooklyn, NY 11238

Re: Phase II Subsurface Investigation Report
1013 Atlantic Avenue, Brooklyn, NY
Block: 2019 Lot: 51

Dear Mr. Shapiro:
Environmental Business Consultants (EBC) performed a Phase II Subsurface Investigation at the above-referenced Site on August 9, 2018 to assess the environmental condition of the property. The purpose of the investigation was to further assess potential impacts associated with the historic use of the property as a gas station and auto repair facility, and to determine the extent and nature of fill materials present.

Property Description

The street address associated with the Site is 1013 Atlantic Avenue, Brooklyn, New York 11238. The Site is identified as Block 2019, Lot 51 on the New York City Tax Map. Lot 51 consists of 98.67 feet of street frontage along Atlantic Avenue and 128.25 feet of street frontage along Classon Avenue (**Figure 1**). The entire Site is approximately 7,650 square feet (sf) in area.

The Site is developed with a gasoline filling station with a single-story auto repair shop and three dispenser islands in the south and east portions of the Site. There are three underground storage tanks registered to the property and which remain in use including: a 4,000 gallon diesel fuel tank, a 12,000 gallon gasoline tank and a 6,000 gallon gasoline tank. Fifteen 550 gallon tanks were previously removed from the property in 1999.The property dimensions and building layout are shown in **Figure 2**.

Subsurface Investigation

Field work for the Subsurface Investigation was performed on August 9, 2018. Prior to the installation of soil borings, a geophysical survey was performed to locate and mark-out the location of any underground storage tanks. Field work consisted of the installation of eight soil borings (SB1 through SB8).

Geophysical Survey

A geophysical survey was performed on August 9, 2018, by NOVA Geophysical Services (NOVA) across all accessible areas of the Site. A previous geophysical survey report which was performed in February 2016 is provided in **Appendix A**. Findings are discussed below.

- Three large anomalies that are consistent with the on-Site known USTs. One anomaly was located in the central portion of the Site. The second anomaly was located to the south of the on Site building.
- Subsurface piping and vent pipes associated with the USTs.
- A large anomaly was identified in the northeast portion of the Site.
- Multiple anomalies, consistent with hydraulic tanks and a floor drain was located within the on Site building.
- Several utilities (electric, sewer and water) were located on Site.

Figure 2 shows the approximate locations of all anomalies, piping and utilities found during the geophysical survey.

Soil Borings

Eight soil borings (SB1-SB3) were advanced at the Site in the approximate locations shown on **Figure 3**. All borings were advanced with Geoprobe™ 6712DT direct push equipment and sampled with a 5-foot dual tube system using disposable acetate liners. Retrieved sample cores were characterized by an Environmental Professional (EP) and field screened for the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID).

SB1, SB2 and SB6 through SB10 were installed to a terminal depth of 20 feet below grade. SB3 was installed to 14 feet below grade, where refusal was encountered. SB4 and SB5 were installed to a terminal depth of 5 feet below grade. Soil beneath the site consisted of historic fill material which varied in depth from 5 to 10 feet across the Site underlain by silt, clay and rock from 10 to 20 feet. One soil boring, SB3, had concrete at 15 feet below grade. No visual, olfactory or PID detections above background levels were encountered in borings SB3 through SB7. Therefore, a soil sample was retained from SB3 at 13 to 15 feet below grade and at SB6 and SB7 from 18 to 20 feet.

Low PID readings (0-10ppm) and slight petroleum odors were noted for SB1 and SB2 from 0 to 10 feet. Soil samples were retained for SB1 and SB2 at 8 to 10 feet and 18 to 20 feet respectively. Elevated PID readings of 2,000 ppm with staining and petroleum odors were identified in SB8 from 15 to 20 feet below grade and a sample retained from this interval.

Representative samples of the historic fill encountered, were retained from SB3, SB5 and SB8 from 0 to 2 feet below grade. Groundwater is estimated at 60 to 65 feet below grade and was not encountered during the subsurface investigation. Soil boring logs are included in **Appendix B**.

Sample Handling and Analysis
Collected samples were appropriately packaged, placed in coolers and shipped via laboratory dispatched courier for delivery 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). Deep soil samples and petroleum impacted soil samples were analyzed for volatile organic compounds (VOCs) by USEPA method 8260 and semi-volatile organic compounds (SVOCs) by USEPA method 8270. Representative historic fill samples were analyzed for TAL Metals by USEPA method 6010.

Results

Soil sample results are compared to NYSDEC Part 375 Table 375-6.8(a) and (b) Soil Cleanup Objectives (SCOs) for Unrestricted Use and Restricted Residential Use on **Tables 1** and **2**. A copy of the laboratory analytical report is included in **Appendix C**.

Several petroleum VOCs were detected at elevated concentrations in SB8 (18-20') including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethylbenzene, m&p-xylene, napthalene, n-propylbenzene, o-xylene and toluene.

Several SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene and including barium, copper, lead, mercury and zinc were reported above residential cleanup objectives in samples of the fill materials.

Groundwater was not encountered during the remedial investigation. Therefore, no groundwater samples were collected.

Conclusions
Soil at the Site consists of fill material to a depth between 5 to 10 feet below grade underlain by silt and clay from 10 to 20 feet across the Site. Concrete possibly related to the removal of the former 50 gallon USTs was encountered at one location at 15 feet below grade. Groundwater is approximately 60 to 65 feet below grade and was not encountered during the subsurface investigation.

The fill materials at the Site contain elevated levels of SVOCs and metals including barium, lead and mercury. If excavated for redevelopments purposes this material would require waste characterization testing / classification and off-site disposal at an out-of-state (NJ, PA, DE) soil disposal facility. Based on the metals samples collected the soil should be able to be disposed of as non-hazardous low lead fill.

Petroleum impacted soil encountered at soil boring SB8 appears to be related to a former release in the vicinity of the tanks. Since the contamination was encountered at the 18-20 ft level and not in shallow soil, it is likely related to the tanks and not the dispensers or piping. Given that both in-service gasoline tanks are constructed if double wall fiberglass reinforced plastic (FRP) with interstitial monitoring, it is unlikely that the contamination is related to the existing tank system. Based on the constituents present in soil which show enrichment in

xylenes and trimethylbenzene, and deficiency in benzene, this is an older spill that is probably related to the former 550 gallon USTs.

Based on the findings of this investigation, the historic use of the property as a gas station, has impacted the soil quality beneath the building. Given that the groundwater is deep in this area at a depth of approximately 65 feet below the surface, it is unlikely to be impacted. The Site is also listed with Hazmat and Noise E-Designations (E-183) under the Fort Greene/Clinton Hill Rezoning completed by the City in 2007. Any redevelopment work proposed for the site will be subject to an environmental review by the NYC Office of Environmental Remediation (OER) to obtain a release in the form of a Notice to Proceed (NTP) before building permits can be obtained.

Remediation of the Site will be required during redevelopment under a work plan approved by both the NYSDEC and the NYCOER. As this is a "facility" as defined by the NYSDEC, a spill must be reported by the owner of the facility.

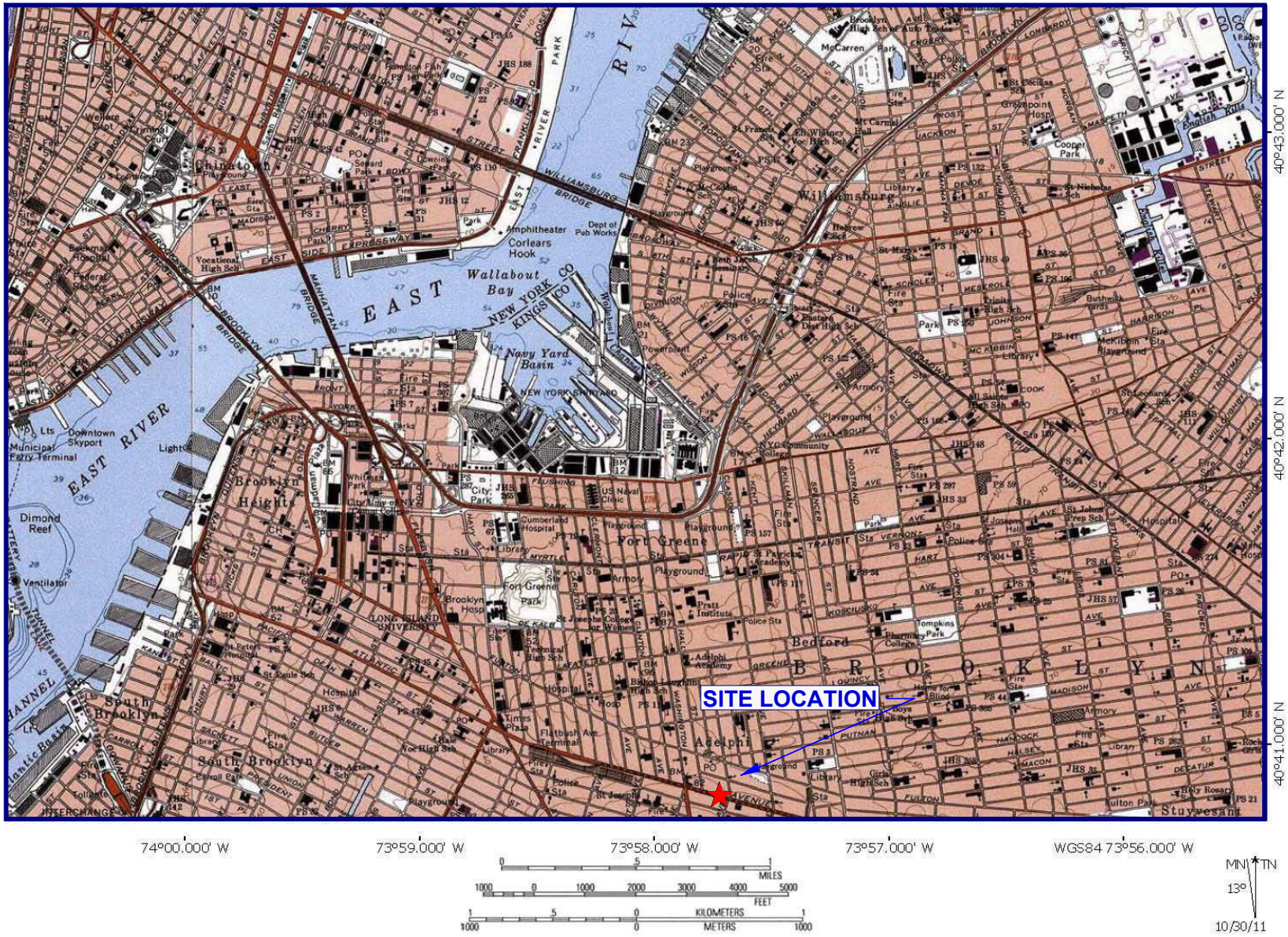
Remediation of the site will likely consist of the excavation of impacted soil. If the contamination extends deeper than is practical to excavate then an alternate technology such as soil vapor extraction will need to be employed. Please contact me if you have any questions or require any additional information.

Very truly yours,

Environmental Business Consultants

Kevin Waters
Project Manager

FIGURES

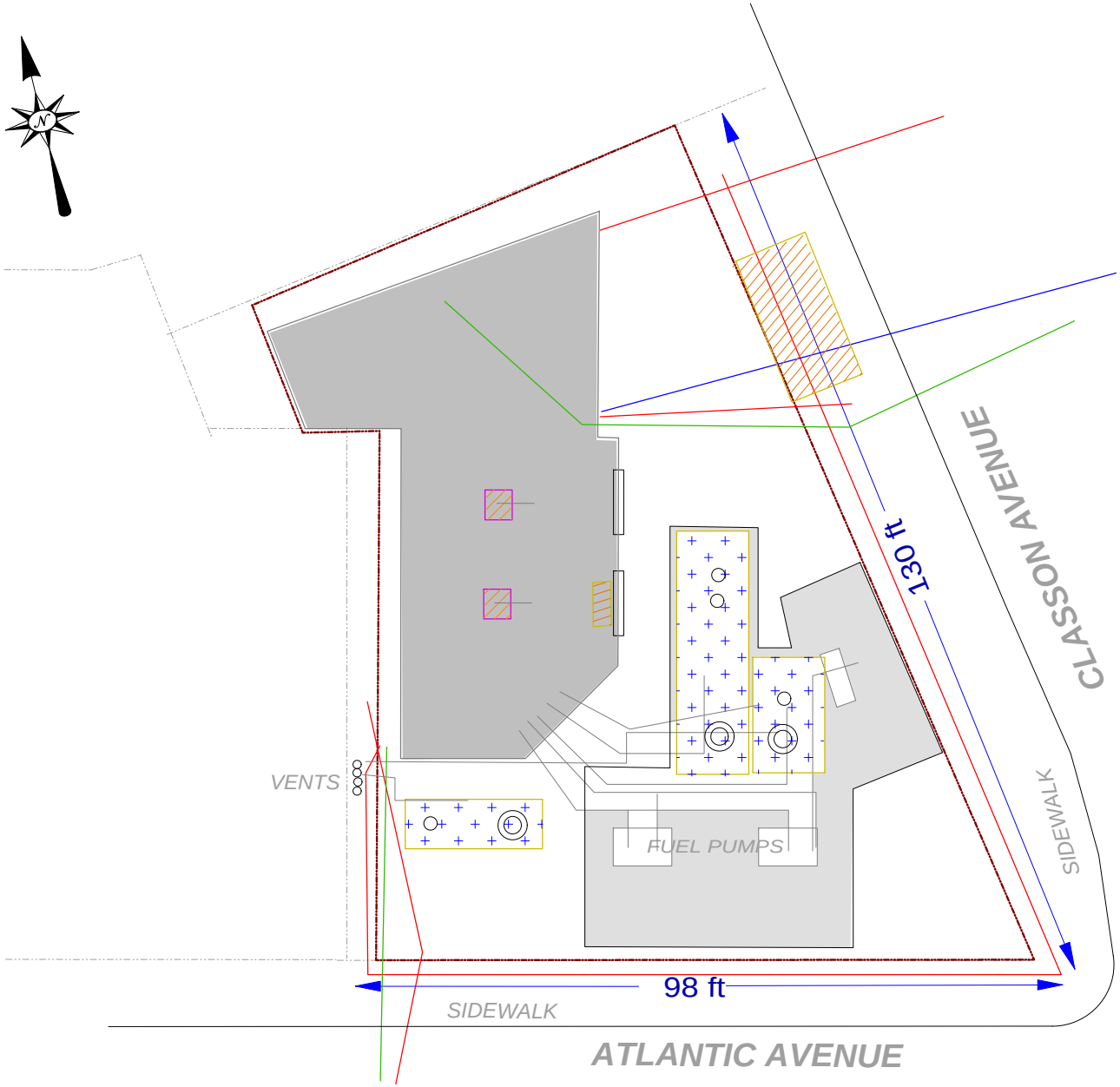


USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

EBC
Environmental Business Consultants
1808 Middle Country Road. Ridge. NY 11961
Phone 631.504.6000
Fax 631.924.2780

1013 Atlantic Avenue
Brooklyn, NY

FIGURE 1 Site Location Map



SCALE:

0 12.5 25

Scale: 1 inch = 25 feet

KEY:

- Property Boundary
- Underground Sewer Line
- Underground Electric Line
- Underground Water Line
- Former Hydraulic Tank & Pi
- Underground Fuel Tank
- Unknown Anomoly

EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 2

Site Name: 1013 Atlantic Avenue

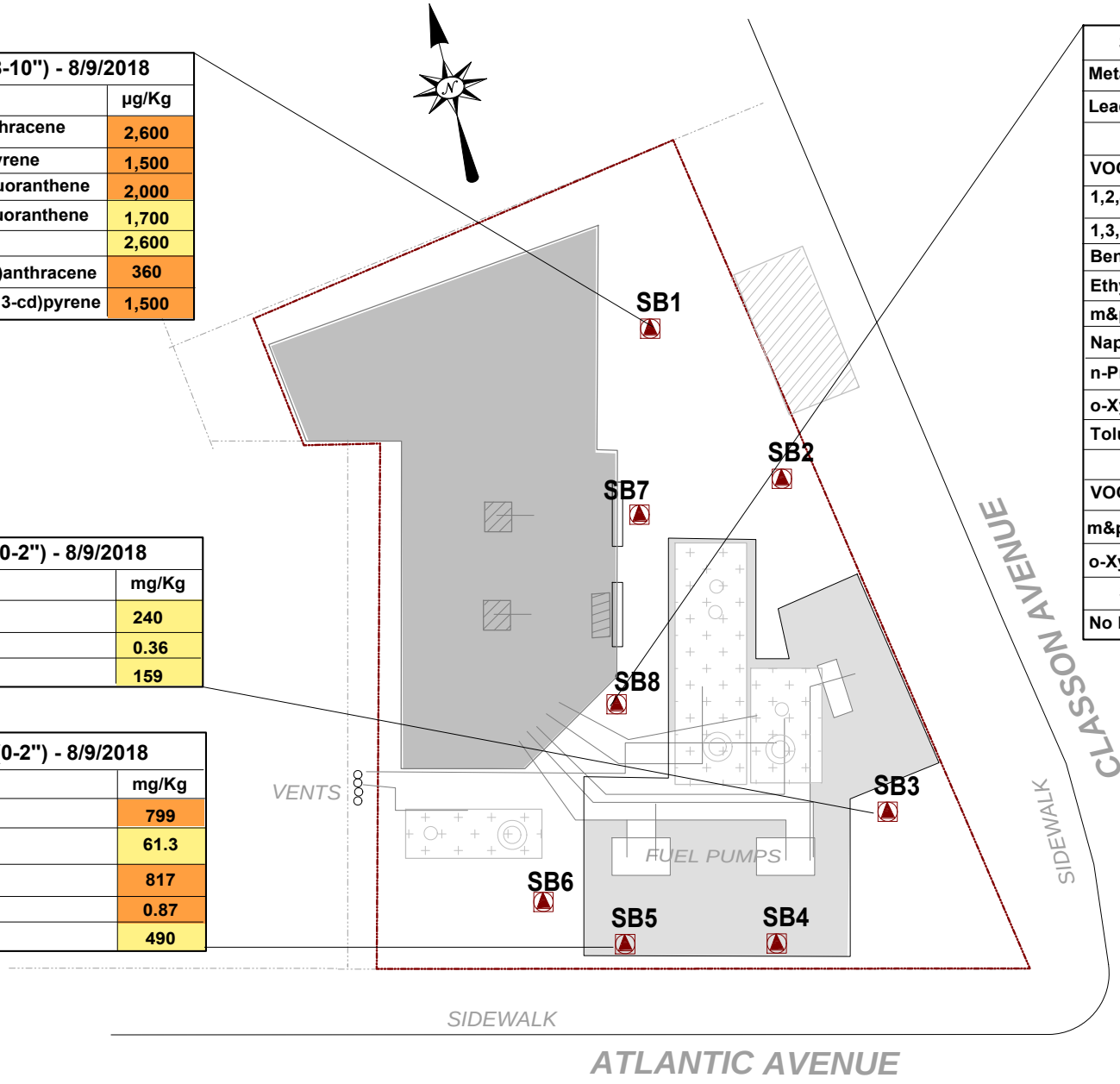
Site Address: 1013 Atlantic Avenue, Brooklyn, NY 11238

Drawing Title: Soil Boring Locations

SB1 (8-10") - 8/9/2018	
SVOCs	µg/Kg
Benz(a)anthracene	2,600
Benzo(a)pyrene	1,500
Benzo(b)fluoranthene	2,000
Benzo(k)fluoranthene	1,700
Chrysene	2,600
Dibenz(a,h)anthracene	360
Indeno(1,2,3-cd)pyrene	1,500

SB3 (0-2") - 8/9/2018	
Metals	mg/Kg
Lead	240
Mercury	0.36
Zinc	159

SB5 (0-2") - 8/9/2018	
Metals	mg/Kg
Barium	799
Copper	61.3
Lead	817
Mercury	0.87
Zinc	490



SB8 (0-2') - 8/9/2018	
Metals	mg/Kg
Lead	93.1
SB8 (18-20') - 8/9/2018	
VOCs	µg/Kg
1,2,4-Trimethylbenzene	180,000
1,3,5-Trimethylbenzene	52,000
Benzene	1,200
Ethylbenzene	86,000
m&p-Xylene	310,000
Naphthalene	21,000
n-Propylbenzene	29,000
o-Xylene	130,000
Toluene	250,000
SB8 (20-22') - 10/9/2018	
VOCs	µg/Kg
m&p-Xylene	1,400
o-Xylene	550
SB8 (22-24') - 10/9/2018	
No Exceedences	

SCALE:

0 12.5 25

Scale: 1 inch = 25 feet

KEY:

Property Boundary

Boring Location

EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 3

Site Name: 1013 Atlantic Avenue

Site Address: 1013 Atlantic Avenue, Brooklyn, NY 11238

Drawing Title: Soil Sample Resylts

TABLES

TABLE 1
1013 Atlantic Avenue,
Brooklyn, New York
Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1		SB2		SB3		SB6		SB7		SB8	
			8/9/2018		8/9/2018		8/9/2018		8/9/2018		8/9/2018		8/9/2018	
			(8-10)		(18-20)		(13-15)		(18-20)		(18-20)		(18-20)	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1-Trichloroethane	680	100,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,1,1,2-Tetrachloroethane			< 1100	1,100	< 16	16	< 15	15	< 4.3	4.3	< 17	17	< 1600	1,600
1,1,2,2-Tetrachloroethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,1,2-Trichloroethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,1-Dichloroethane	270	26,000	< 270	270	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 270	270
1,1-Dichloroethene	330	100,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 330	330
1,1-Dichloropropene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,2,3-Trichlorobenzene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,2,3-Trichloropropane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,2,4-Trichlorobenzene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,2,4-Trimethylbenzene	3,600	52,000	**170**	280	**5.7**	4.0	**1.4**	3.8	< 4.3	4.3	< 4.2	4.2	**180,000**	3,600
1,2-Dibromo-3-chloropropane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,2-Dibromoethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,2-Dichlorobenzene	1,100	100,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,2-Dichloroethane	20	3,100	< 20	20	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 39	39
1,2-Dichloropropane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,3,5-Trimethylbenzene	8,400	52,000	**46**	280	**1.3**	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**52,000**	7,800
1,3-Dichlorobenzene	2,400	49,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,3-Dichloropropane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,4-Dichlorobenzene	1,800	13,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
1,4-dioxane	100	13,000	< 2200	2,200	< 59	59	< 56	56	< 65	65	< 63	63	< 3100	3,100
2,2-Dichloropropane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
2-Chlorotoluene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
2-Hexanone			< 1400	1,400	< 20	20	< 19	19	< 22	22	< 21	21	< 1900	1,900
2-Isopropyltoluene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**340**	390
4-Chlorotoluene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
4-Methyl-2-pentanone			< 1400	1,400	< 20	20	< 19	19	< 22	22	< 21	21	< 1900	1,900
Acetone	50	100,000	< 50	50	**7.8**	20	**12**	19	**6.4**	22	**5.4**	21	< 390	390
Acrolein			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Acrylonitrile			< 1100	1,100	< 16	16	< 15	15	< 8.7	8.7	< 17	17	< 1600	1,600
Benzene	60	4,800	< 60	60	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**1,200**	780
Bromobenzene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Bromochloromethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Bromodichloromethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Bromoform			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Bromomethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Carbon Disulfide			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Carbon tetrachloride	760	2,400	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Chlorobenzene	1,100	100,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Chloroethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Chloroform	370	49,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 370	370
Chloromethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
cis-1,2-Dichloroethene	250	100,000	< 250	250	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 250	250
cis-1,3-Dichloropropene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Dibromochloromethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Dibromomethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Dichlorodifluoromethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Ethylbenzene	1,000	41,000	**52**	280	**1.9**	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**86,000**	1,000
Hexachlorobutadiene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Isopropylbenzene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**9,900**	3,900
m&p-Xylene	260	100,000	**210**	280	**7.8**	4.0	**1.4**	3.8	< 4.3	4.3	**1.1**	4.2	**310,000**	7,800
Methyl Ethyl Ketone	120	100,000	< 120	120	< 24	24	< 23	23	< 26	26	< 25	25	< 160	160
Methyl t-butyl ether (MTBE)	930	100,000	< 560	560	< 7.9	7.9	< 7.5	7.5	< 8.7	8.7	< 8.4	8.4	< 780	780
Methylene chloride	50	100,000	< 50	50	**4.7**	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Naphthalene	12,000	100,000	**2,900**	280	**6.8**	4.0	**1.7**	3.8	< 4.3	4.3	< 4.2	4.2	**21,000**	3,900
n-Butylbenzene	12,000	100,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**6,600**	3,900
n-Propylbenzene	3,900	100,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**29,000**	3,900
o-Xylene	260	100,000	**110**	280	**4.5**	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**130,000**	3,900
p-Isopropyltoluene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**1,300**	390
sec-Butylbenzene	11,000	100,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	**3,200**	3,100
Styrene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 780	780
Tert-butyl alcohol			< 5600	5,600	< 79	79	< 75	75	< 87	87	< 84	84	< 7800	7,800
tert-Butylbenzene	5,900	100,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Tetrachloroethene	1,300	19,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Tetrahydrofuran (THF)			< 560	560	< 7.9	7.9	< 7.5	7.5	< 8.7	8.7	< 8.4	8.4	< 780	780
Toluene	700	100,000	**95**	280	**5.1**	4.0	**1.1**	3.8	**0.77**	4.3	**1.1**	4.2	**250,000**	780
trans-1,2-Dichloroethene	190	100,000	< 190	190	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 190	190
trans-1,3-Dichloropropene			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
trans-1,4-dichloro-2-butene			< 560	560	< 7.9	7.9	< 7.5	7.5	< 8.7	8.7	< 8.4	8.4	< 780	780
Trichloroethene	470	21,000	< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Trichlorofluoromethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Trichlorotrifluoroethane			< 280	280	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 390	390
Vinyl chloride	20	900	< 20	20	< 4.0	4.0	< 3.8	3.8	< 4.3	4.3	< 4.2	4.2	< 39	39
Total BTEX			**467**		**19**		**3**		**1**		**2**		**777,200**	
Total VOCs			**3583**		**45.6**		**17.6**		**7.17**		**7.6**		**1,080,540**	

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 2
1013 Atlantic Avenue,
Brooklyn, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1		SB2		SB3		SB6		SB7		SB8	
			8/9/2018		8/9/2018		8/9/2018		8/9/2018		8/9/2018		8/9/2018	
			(8-10)		(18-20)		(13-15)		(18-20)		(18-20)		(18-20)	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,2,4-Trichlorobenzene			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,2-Dichlorobenzene			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,2-Diphenylhydrazine			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,3-Dichlorobenzene			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,4-Dichlorobenzene			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2,4,5-Trichlorophenol			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
2,4-Dichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
2,4-Dimethylphenol			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2,4-Dinitrophenol			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2,4-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
2,6-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
2-Chloronaphthalene			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2-Chlorophenol			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2-Methylnaphthalene			**330**	270	< 250	250	< 250	250	< 250	250	< 250	250	**3,900**	250
2-Methylphenol (o-cresol)	330	100,000	< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2-Nitroaniline			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2-Nitrophenol			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
3&4-Methylphenol (m&p-cresol)	330	100,000	< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
3-Nitroaniline			< 380	380	< 360	360	< 350	350	< 360	360	< 360	360	< 360	360
4,6-Dinitro-2-methylphenol			< 230	230	< 210	210	< 210	210	< 220	220	< 220	220	< 210	210
4-Bromophenyl phenyl ether			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
4-Chloro-3-methylphenol			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
4-Chloroaniline			< 300	300	< 290	290	< 280	280	< 290	290	< 290	290	< 280	280
4-Chlorophenyl phenyl ether			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
4-Nitroaniline			< 380	380	< 360	360	< 350	350	< 360	360	< 360	360	< 360	360
4-Nitrophenol			< 380	380	< 360	360	< 350	350	< 360	360	< 360	360	< 360	360
Acenaphthene	20,000	100,000	**840**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Acenaphthylene	100,000	100,000	**150**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Acetophenone			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Aniline			< 300	300	< 290	290	< 280	280	< 290	290	< 290	290	< 280	280
Anthracene	100,000	100,000	**1,700**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Benz(a)anthracene	1,000	1,000	**2,600**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Benzidine			< 380	380	< 360	360	< 350	350	< 360	360	< 360	360	< 360	360
Benzo(a)pyrene	1,000	1,000	**1,500**	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
Benzo(b)fluoranthene	1,000	1,000	**2,000**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Benzo(ghi)perylene	100,000	100,000	**1,300**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Benzo(k)fluoranthene	800	3,900	**1,700**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Benzoic acid			< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
Benzyl butyl phthalate			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-chloroethoxy)methane			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
Bis(2-chloroisopropyl)ether			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-ethylhexyl)phthalate			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Carbazole			**700**	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
Chrysene	1,000	3,900	**2,600**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Dibenz(a,h)anthracene	330	330	**360**	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
Dibenzofuran	7,000	59,000	**730**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Diethyl phthalate			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Dimethylphthalate			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Di-n-butylphthalate			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Di-n-octylphthalate			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Fluoranthene	100,000	100,000	**4,500**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Fluorene	30,000	100,000	**950**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Hexachlorobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
Hexachlorobutadiene			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Hexachlorocyclopentadiene			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Hexachloroethane			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	**1,500**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Isophorone			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
Naphthalene	12,000	100,000	**760**	270	< 250	250	< 250	250	< 250	250	< 250	250	**2,900**	250
Nitrobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
N-Nitrosodimethylamine			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 180	180
N-Nitrosodiphenylamine			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Pentachloronitrobenzene			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Pentachlorophenol	800	6,700	< 230	230	< 210	210	< 210	210	< 220	220	< 220	220	< 210	210
Phenanthrene	100,000	100,000	**5,000**	270	< 250	250	< 250	250	< 250	250	< 250	250	**130**	250
Phenol	330	100,000	< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Pyrene	100,000	100,000	**4,400**	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Pyridine			< 270	270	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250

Notes:
* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 3
1013 Atlantic Avenue,
Brooklyn, New York
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB3		SB5		SB8	
			8/9/2018		8/9/2018		8/9/2018	
			(0-2) mg/Kg		(0-2') mg/Kg		(0-2) mg/Kg	
			Result	RL	Result	RL	Result	RL
Aluminum			**9,320**	35	**6,160**	37	**8,660**	36
Antimony			< 3.5	3.5	< 3.7	3.7	< 3.6	3.6
Arsenic	13	16	**4.21**	0.71	**8.83**	0.74	**2.76**	0.72
Barium	350	350	**169**	0.7	**799**	0.7	**76.8**	0.7
Beryllium	7.2	14	**0.48**	0.28	**0.33**	0.30	**0.44**	0.29
Cadmium	2.5	2.5	**0.63**	0.35	**1.02**	0.37	**0.51**	0.36
Calcium			**14,100**	35	**53,800**	37	**8,010**	3.6
Chromium	30	180	**23.9**	0.35	**22.9**	0.37	**20.1**	0.36
Cobalt			**8.39**	0.35	**8.29**	0.37	**7.41**	0.36
Copper	50	270	**29**	0.7	**61.3**	0.7	**31.5**	0.7
Iron			**21,900**	35	**17,300**	37	**19,100**	36
Lead	63	400	**240**	7.1	**817**	7.4	**93.1**	0.7
Magnesium			**5,980**	35	**10,500**	37	**3,520**	3.6
Manganese	1,600	2,000	**385**	3.5	**319**	3.7	**627**	3.6
Mercury	0.18	0.81	**0.36**	0.03	**0.87**	0.03	**0.11**	0.03
Nickel	30	140	**26**	0.35	**18.1**	0.37	**17.9**	0.36
Potassium			**1,490**	7	**1,150**	7	**1,300**	7
Selenium	3.9	36	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4
Silver	2	36	< 0.35	0.35	< 0.37	0.37	< 0.36	0.36
Sodium			**567**	7	**383**	7	**415**	7
Thallium			< 1.4	1.4	< 1.5	1.5	< 1.4	1.4
Vanadium			**32.3**	0.35	**22.6**	0.37	**29**	0.36
Zinc	109	2,200	**159**	7.1	**490**	7.4	**89.8**	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

APPENDIX A
Geophysical Survey Report (2016)

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Property

1013 Atlantic Avenue
Brooklyn, New York

NOVA PROJECT NUMBER
16-0139

DATED
FEBRUARY 9, 2016

PREPARED FOR:

EB C

Environmental Business Consultants
1808 Middle Country Rd,
Ridge, NY 11961
(631) 504-6000

PREPARED BY:

NOVA
GEOPHYSICAL
ENGINEERING
Subsurface Mapping Solutions

56-01 Marathon Parkway # 765
Douglaston, New York 11362
347-556-7787 (PHONE)
718-261-1527(FAX)
www.nova-gsi.com

NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS
56-01 Marathon Parkway, # 765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.nova-gsi.com

February 9, 2016

Robert M. Bennett
Project Manager
EB C
Environmental Business Consultants
1808 Middle Country Road,
Ridge, New York 11961
Ph: (631) 504-6000 ext. 123
Fax: (631) 924-2870

Re: Geophysical Engineering Survey (GES) Report
Commercial Property
1013 Atlantic Avenue
Brooklyn, New York

Dear Mr. Bennett:

Nova Geophysical Services (NOVA) is pleased to provide findings of the geophysical engineering survey (GES) at the above referenced project site: Commercial Property, 1013 Atlantic Avenue, Brooklyn, New York (the "Site"). Please see attached Site Location and Geophysical Survey maps for more details.

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a Geophysical engineering surveys (GES) consisting of a Ground Penetrating Radar (GPR) survey at the site. The purpose of this survey is to locate and potential identify USTs, based on a previous survey of the site, on February 8th, 2016.

The equipment selected for this investigation was a Noggin 250 MHz ground penetrating radar (GPR) shielded antenna and a 3M Dynatel utility locator.

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

GEOPHYSICAL METHODS

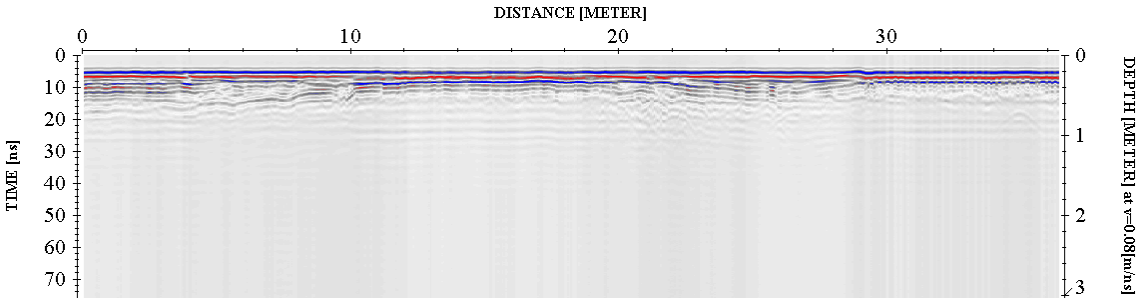
The project site was screened using the GPR to search the entire area and inspected for reflections, which could be indicative of major anomalies and substructures. Utility locations were confirmed using the utility locator.

GPR data profiles were collected for the areas of the Site specified by the client. The surveyed areas consisted concrete and asphalt surfaces.

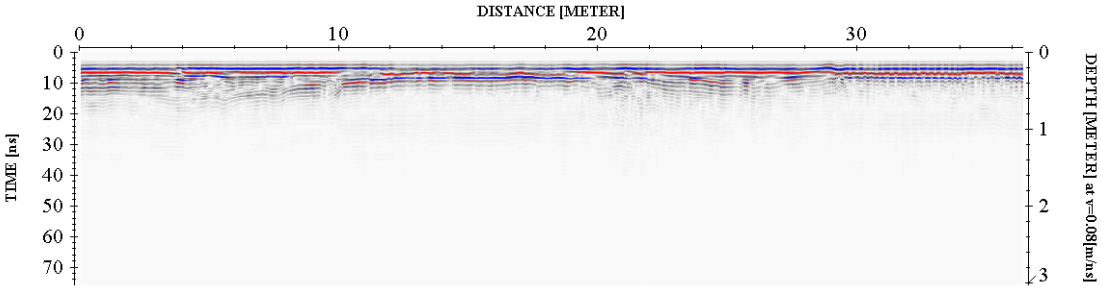
DATA PROCESSING

In order to improve the quality of the results and to better identify subsurface anomalies NOVA processed the collected data. The processes flow is briefly described at this section.

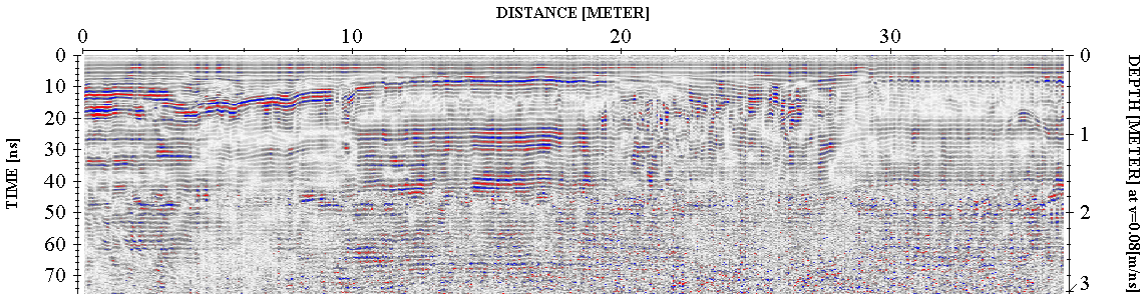
Step 1. Import raw RAMAC data to standard processing format



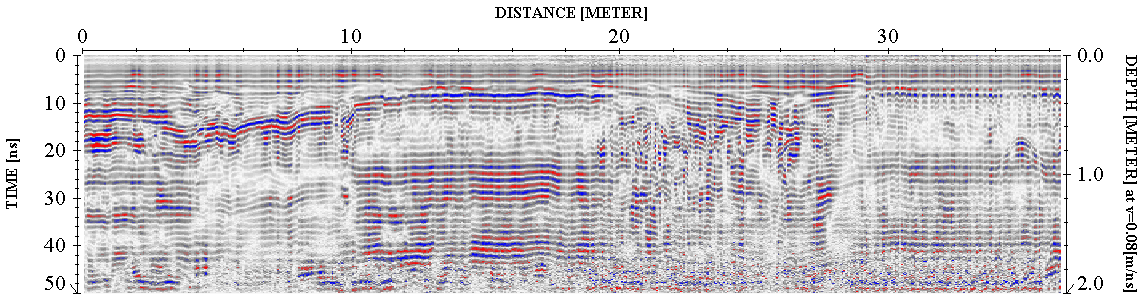
Step 2. Remove instrument noise *(dewow)*



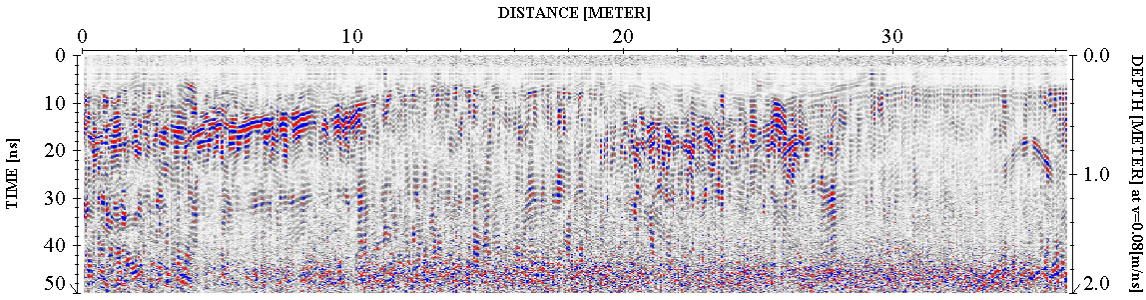
Step 3. Correct for attenuation losses *(energy decay function)*



Step 4. Remove static from bottom of profile *(time cut)*



Step 5. Mute horizontal ringing/noise *(subtracting average)*



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and describes the subsurface anomalies more accurately.

PHYSICAL SETTINGS

Nova observed following physical conditions at the time of the survey:

The weather: Overcast

Temp: 34 Degrees (F).

Surface: Concrete and asphalt surfaces

Geophysical Noise Level (GNL): Geophysical Noise Level (GNL) was medium to high at the site. The noise was a result of the site being in an urban environment and snow.

RESULTS

~~The results of the geophysical engineering survey (GES) identified following at the project Site:~~

- GES Identified three large anomalies that are consistent with the on-site know USTs. (gasoline 4,000-gallon, 6,000-gallo and 12,000-gallon). These USTs were clearly marked on the field.

- GES identified subsurface piping and vent pipes associated with these USTs. They were also marked clearly.

- GES identified several large anomalies that maybe consistent with potential USTs. These are indicated both on the survey map and onsite.

- GES identified multiple anomalies consistent with hydraulic tanks located within the project site building. Additionally, a floor drain was also identified within the site building was also indicated on the survey map.

- Several utilities (electric, sewer, and water) were located on the site. These were marked out both at the site and on the survey map (subsurface only).

- Geophysical Survey Plan portrays the areas investigated during the geophysical survey.

If you have any questions please do not hesitate to contact the undersigned.
Sincerely,

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.
Project Engineer

Attachments:
Figure 1 Site Location Map
Geophysical Survey Plan
Geophysical Images

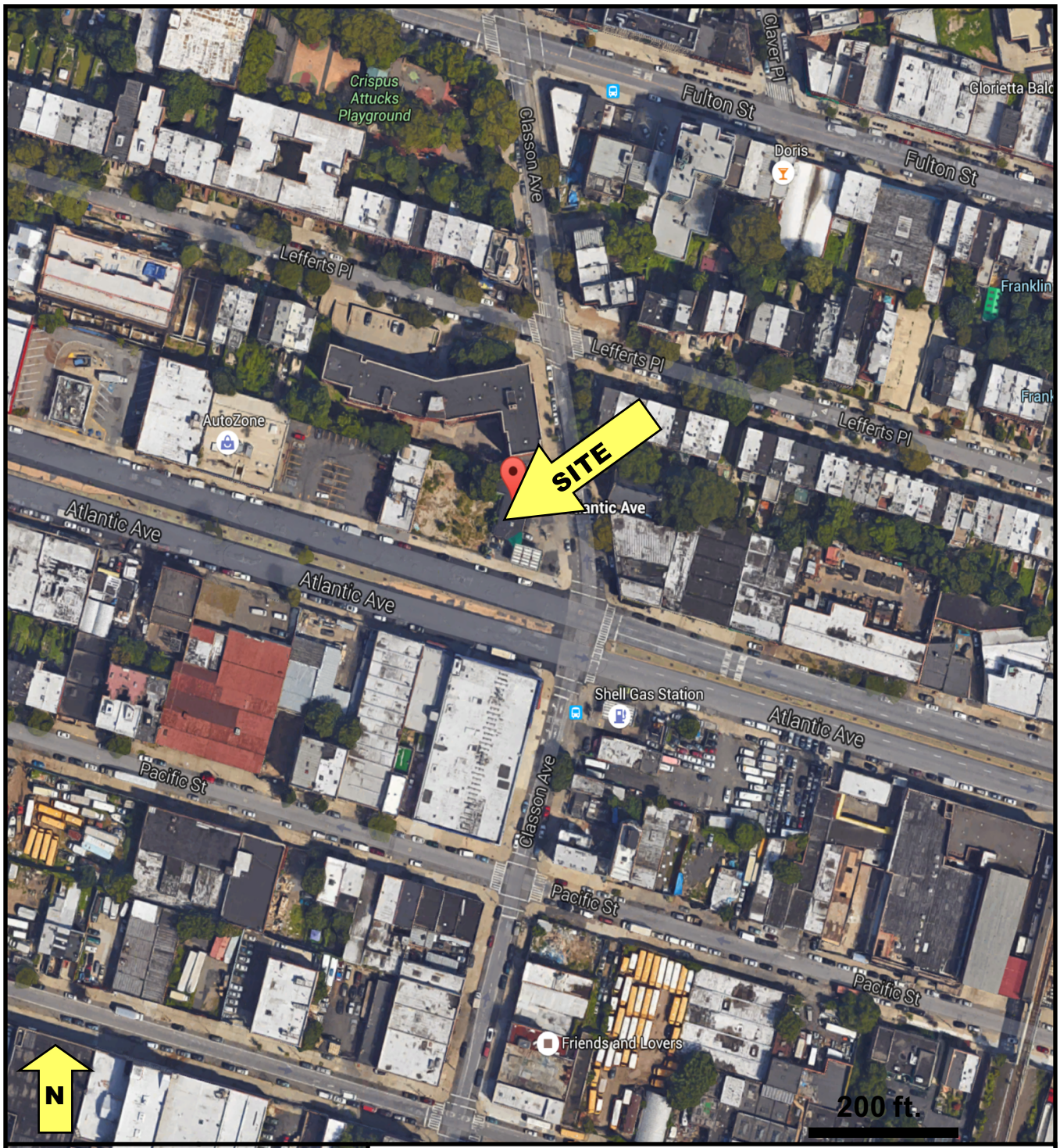
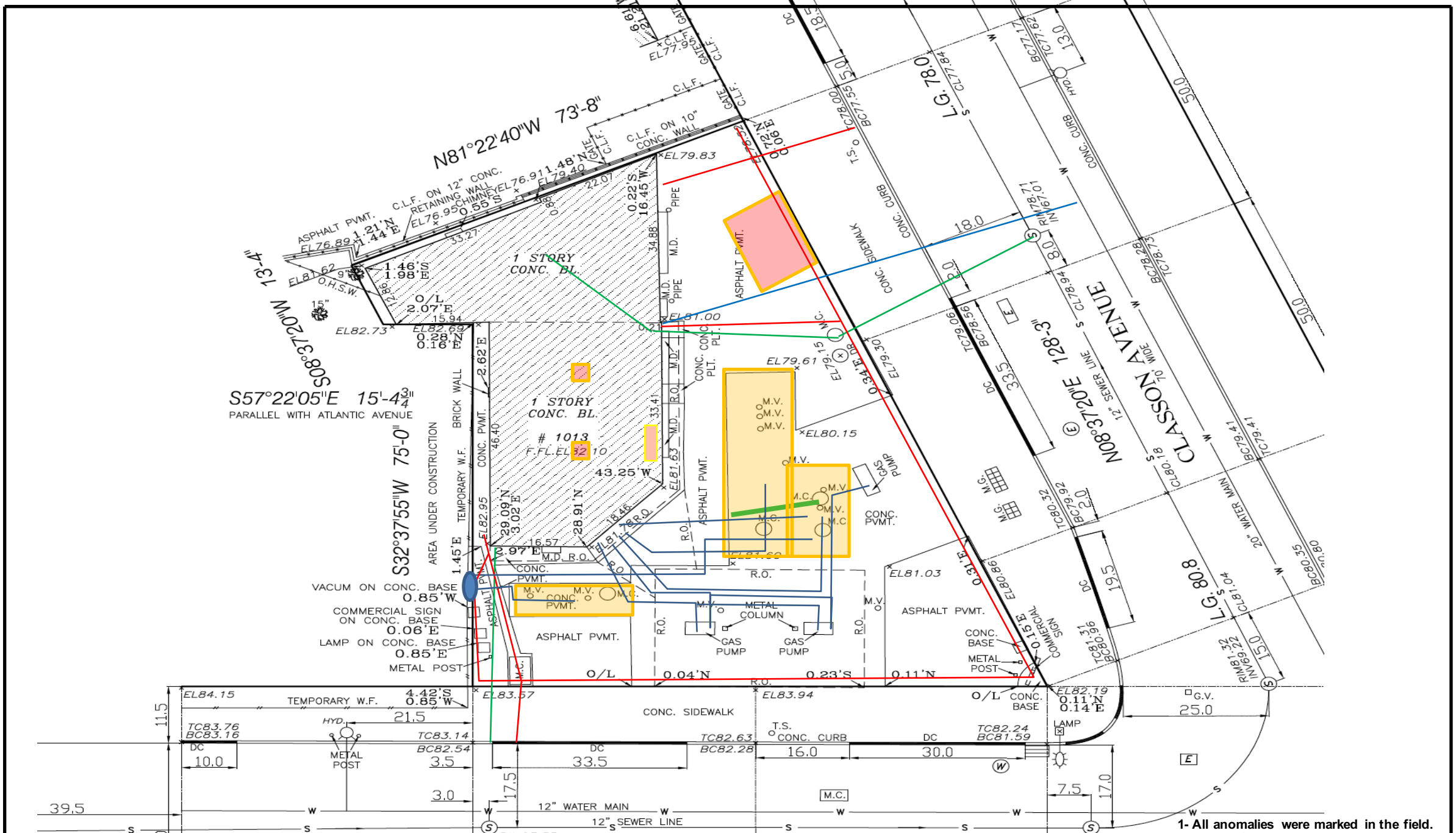


FIGURE 1
SITE LOCATION MAP

NOVA
Geophysical Services
Subsurface Mapping Solutions
56-01 Marathon Pkwy, # 765, Douglaston, NY11362
(347) 556-7787 Fax (718) 261-1528
www.nova-gsi.com

SITE: **Commercial Property**
1013 Atlantic Avenue
Brooklyn, New York

SCALE: See Map



NOVA Geophysical Services

Subsurface Mapping Solutions

56-01 Marathon Parkway, PO Box 765
Douglaston, New York11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.nova-gsi.com

GEOPHYSICAL SURVEY PLAN

SITE : **Gasoline Station**
1013Avenue
Brooklyn, New York

CLIENT: **IBC**
DATE: February , 2016
Scale See Map

INFORMATION

- Survey Area
- Water Line
- Electrical Line
- Vent Pipes
- Sewer Line
- USTs (gasoline)
- Anomalies
- Anomaly (Hydraulic Tanks)

N

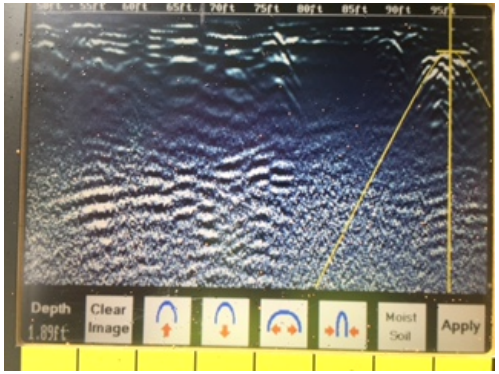
20 ft.

GEOPHYSICAL IMAGES

Commercial Property
1013 Atlantic Avenue
Brooklyn, New York
February 8, 2016

GEOPHYSICAL IMAGES

Commercial Property
1013 Atlantic Avenue
Brooklyn, New York
February 8, 2016



GEOPHYSICAL IMAGES

Commercial Property
1013 Atlantic Avenue
Brooklyn, New York
February 8, 2016

APPENDIX B
Soil Boring Logs

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB1 Boring Log

Location: 24' from Lot 40 and 7' from garage on site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1601	Address: 1013 Atlantic Avenue, Brooklyn NY, 11238	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: C2 Environmental	Method: Geoprobe 6712DT			Well Specifications
Date Started: 8/9/2018	Date Completed: 8/9/2018			None
Completion Depth: 20 Feet	Geologist Tony Balado			

SB1 (NTS)	DEPTH (ft below cellar grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	30		10.0	30" - Dry asphalt, brown silt, and brick mix
	to 10	17		0.0 1.5 3	5" - Damp black stained silt with petrol odor. 5" - Damp brown silt. Petrol odor. 7" - Damp medium sand. No odor. **Retained soil sample SB1(8-10')*
	to 15	34		1.5	34" - Damp red and brown silt and clay. No odor.
	to 20	37		0.0	37" - Damp red, brown, and gray silt and clay. No odor.

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB2 Boring Log

Location: 54' from Lot 40 and 27' from garage on site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1601	Address: 1013 Atlantic Avenue, Brooklyn NY, 11238	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: C2 Environmental	Method: Geoprobe 6712DT			Well Specifications
Date Started: 8/9/2018	Date Completed: 8/9/2018			None
Completion Depth: 20 Feet	Geologist Tony Balado			

SB2 (NTS)	DEPTH (ft below cellar grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	32		3.8	7" - Asphalt. 17" - Dry brown silt with wood and brick. No odor. 8" - White concrete or stone.
	to 10	26		5.0	10" - Damp brown and black silt with petrol odor.
	to 15	26		0.0	9" - Damp brown silt with brick. No odor. 17" - Damp brown silt. No odor.
	to 20	28		0.0	28" - Damp brown/gold silt and clay. No odor. **Retained soil sample SB2(18-20')*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB3 Boring Log

Location: 12' From Classon Ave, and 24' from Atlantic Ave.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1601	Address: 1013 Atlantic Avenue, Brooklyn NY, 11238	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: C2 Environmental	Method: Geoprobe 6712DT			Well Specifications
Date Started: 8/9/2018	Date Completed: 8/9/2018			None
Completion Depth: 14 Feet	Geologist Tony Balado			

SB3 (NTS)	DEPTH (ft below cellar grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	22		0.0	30" - Dry asphalt, brown silt, and brick mix. No odor. *Retained soil sample SB3(0-2)*
	to 10	18		0.0	18" - Dry asphalt, brown silt, and brick mix. No odor.
	to 15	24		1.5	8" - Damp brown silt. No odor. 16" - Concrete No odor. Refusal at 15' *Retained soil sample SB3(13-15')*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB4 Boring Log

Location: 40' from corner of Classon Ave and Atlantic ave and 1' from Atlantic Ave.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: STE1601	Address: 1013 Atlantic Avenue, Brooklyn NY, 11238	Date / DTW	Ground Elevation
		Groundwater depth	
Drilling Company: C2 Environmental	Method: Geoprobe 6712DT		Well Specifications
Date Started: 8/9/2018	Date Completed: 8/9/2018		None
Completion Depth: 5 Feet	Geologist Tony Balado		

SB4 (NTS)	DEPTH (ft below cellar grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	22		0.0	10" - Concrete. 12" - Dry brown black silt with brick.

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB5 Boring Log

Location: 62' from corner of Classon Ave and Atlantic ave and 1' from Atlantic Ave.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: STE1601	Address: 1013 Atlantic Avenue, Brooklyn NY, 11238	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: C2 Environmental	Method: Geoprobe 6712DT			Well Specifications
Date Started: 8/9/2018	Date Completed: 8/9/2018			None
Completion Depth: 5 Feet	Geologist Tony Balado			

SB5 (NTS)	DEPTH (ft below cellar grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	20		0.0	9" - Concrete. 11" - Dry brown black silt with brick. **Retained soil sample SB5(0-2')*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB6 Boring Log

Location: 62' from corner of Classon Ave and Atlantic ave and 9' from Atlantic Ave.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: STE1601	Address: 1013 Atlantic Avenue, Brooklyn NY, 11238	Date / DTW	Ground Elevation
		Groundwater depth	
Drilling Company: C2 Environmental	Method: Geoprobe 6712DT		Well Specifications
Date Started: 8/9/2018	Date Completed: 8/9/2018		None
Completion Depth: 20 Feet	Geologist Tony Balado		

SB6 (NTS)	DEPTH (ft below cellar grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	30		0.0	2" - Dry asphalt. 2" - Dry brown silt. 4" - Dry silt and light brown sand. No odor.
	to 10	16		0.0	8" - Dry brown and black silt with brick. 8" - Concrete.
	to 15	22		0.0	22" - Damp brown silt. No odor.
	to 20	24		0.0	24 - Damp brown/red/yellow silt and clay. No odor. **Retained soil sample SB6(18-20')*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB7 Boring Log

Location: 52' from northern property boundary and 1' from garage.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: STE1601	Address: 1013 Atlantic Avenue, Brooklyn NY, 11238	Date / DTW	Ground Elevation
		Groundwater depth	
Drilling Company: C2 Environmental	Method: Geoprobe 6712DT		Well Specifications
Date Started: 8/9/2018	Date Completed: 8/9/2018		None
Completion Depth: 20 Feet	Geologist Tony Balado		

SB7 (NTS)	DEPTH (ft below cellar grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	17		0.3	17" - Dry brown black silt with brick.
	to 10	11		0.0	11" - Damp brown silt with rock. No odor.
	to 15	20		0.0	20" - Dry brown, red, and gray silt and stone.
	to 20	22		0.0	22" - Damp brown, red, and gray silt. No Odor. *Retained soil sample SB7(18-20)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB8 Boring Log

Location: 37' off southern property boundary and 55' from eastern property boundary.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: STE1601	Address: 1013 Atlantic Avenue, Brooklyn NY, 11238	Date / DTW	Ground Elevation
		Groundwater depth	
Drilling Company: C2 Environmental	Method: Geoprobe 6712DT		Well Specifications
Date Started: 8/9/2018	Date Completed: 8/9/2018 and 10/9/2018		None
Completion Depth: 24 Feet	Geologist Tony Balado		

SB8 (NTS)	DEPTH (ft below cellar grade)	SAMPLES Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	42		3.5	4" - Concrete 1" - Asphalt 35" - Brown silt with brick. No odor. *Retained soil sample SB8(0-2)*
	to 10	21		0.0	21" - Wet dark brown silt with brick. No odor.
	to 15	34		0.0	14" - Damp light brown silt and stone. 20" - Damp red and brown silt.
	to 20	38		2,000	5" - Gray possible ash. 33" - Gray stained silt, petrol. odor. *Retained soil sample SB8(18-20)*
	to 24	24		86.7 1.2	12" - Moist brown silty sand, light petrol. odor 12" - Moist light brown sily sand, light petrol. odor *Retained soil sample SB8(20-22)* *Retained soil sample SB8(22-24)*

APPENDIX C
Laboratory Reports

PHOENIX
Environmental Laboratories, Inc.

Friday, August 17, 2018

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

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Sample ID#s: CB09334 - CB09342

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

Sincerely yours,

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

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

Client: Environmental Business Consultants

Project: 1013 ATLANTIC AVE., BROOKLYN

Laboratory Project: GCB09334

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

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NY Analytical Services Protocol Format

August 17, 2018 **SDG I.D.: GCB09334**

Environmental Business Consultants 1013 ATLANTIC AVE., BROOKLYN

Methodology Summary

Accelerated Solvent Extraction (ASE)

Soil Sample - USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed.Update III, Method 3545A.

Mercury Prep

Soil Sample - USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 7471B.

Metals

ICP :
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 6010C.
Mercury:
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7471

Semivolatile Organic Compounds

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D.

Volatile Organic Compounds:

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed.Update III, Method 8260C and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 624) as printed in 40CFR part 136.

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NY Analytical Services Protocol Format

August 17, 2018 **SDG I.D.: GCB09334**

Environmental Business Consultants 1013 ATLANTIC AVE., BROOKLYN

Sample Id Cross Reference

Client Id	Lab Id	Matrix
SB1 (8-10)	CB09334	SOIL
SB2 (18-20)	CB09335	SOIL
SB3 (13-15)	CB09336	SOIL
SB6 (18-20)	CB09337	SOIL
SB7 (18-20)	CB09338	SOIL
SB8 (18-20)	CB09339	SOIL
SB3 (0-2)	CB09340	SOIL
SB5 (0-2)	CB09341	SOIL
SB8 (0-2)	CB09342	SOIL

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August 17, 2018 **SDG I.D.: GCB09334**

Environmental Business Consultants 1013 ATLANTIC AVE., BROOKLYN

Laboratory Chronicle

The samples in this delivery group were received at 4.6°C.

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CB09334	1,4-dioxane	08/09/18	08/11/18	08/11/18	JLI	Y
CB09334	Field Extraction	08/09/18	08/09/18	08/09/18		Y
CB09334	Percent Solid	08/09/18	08/10/18	08/10/18	Q	Y
CB09334	Semivolatiles	08/09/18	08/10/18	08/11/18	KCA	Y
CB09334	Volatiles	08/09/18	08/11/18	08/11/18	JLI	Y
CB09334	Volatiles	08/09/18	08/11/18	08/11/18	JLI	Y
CB09335	1,4-dioxane	08/09/18				Y
CB09335	Field Extraction	08/09/18	08/09/18	08/09/18		Y
CB09335	Percent Solid	08/09/18	08/10/18	08/10/18	Q	Y
CB09335	Semivolatiles	08/09/18	08/10/18	08/11/18	KCA	Y
CB09335	Volatiles	08/09/18				Y
CB09335	Volatiles	08/09/18				Y
CB09336	1,4-dioxane	08/09/18				Y
CB09336	Field Extraction	08/09/18	08/09/18	08/09/18		Y
CB09336	Percent Solid	08/09/18	08/10/18	08/10/18	Q	Y
CB09336	Semivolatiles	08/09/18	08/10/18	08/11/18	KCA	Y
CB09336	Volatiles	08/09/18				Y
CB09336	Volatiles	08/09/18				Y
CB09337	1,4-dioxane	08/09/18				Y
CB09337	Field Extraction	08/09/18	08/09/18	08/09/18		Y
CB09337	Percent Solid	08/09/18	08/10/18	08/10/18	Q	Y
CB09337	Semivolatiles	08/09/18	08/10/18	08/11/18	KCA	Y
CB09337	Volatiles	08/09/18				Y
CB09337	Volatiles	08/09/18				Y
CB09338	1,4-dioxane	08/09/18				Y
CB09338	Field Extraction	08/09/18	08/09/18	08/09/18		Y
CB09338	Percent Solid	08/09/18	08/10/18	08/10/18	Q	Y
CB09338	Semivolatiles	08/09/18	08/10/18	08/11/18	KCA	Y
CB09338	Volatiles	08/09/18				Y
CB09338	Volatiles	08/09/18				Y
CB09339	1,4-dioxane	08/09/18				Y
CB09339	Field Extraction	08/09/18	08/09/18	08/09/18		Y

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

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August 17, 2018 **SDG I.D.: GCB09334**

Environmental Business Consultants 1013 ATLANTIC AVE., BROOKLYN

CB09339	Percent Solid	08/09/18	08/10/18	08/10/18	Q	Y
CB09339	Semivolatiles	08/09/18	08/10/18	08/11/18	KCA	Y
CB09339	Volatiles	08/09/18				Y
CB09339	Volatiles	08/09/18				Y
CB09340	Aluminum	08/09/18	08/10/18			Y
CB09340	Antimony	08/09/18	08/10/18			Y
CB09340	Arsenic	08/09/18	08/10/18			Y
CB09340	Barium	08/09/18	08/10/18			Y
CB09340	Beryllium	08/09/18	08/10/18			Y
CB09340	Cadmium	08/09/18	08/10/18			Y
CB09340	Calcium	08/09/18	08/10/18			Y
CB09340	Chromium	08/09/18	08/10/18			Y
CB09340	Cobalt	08/09/18	08/10/18			Y
CB09340	Copper	08/09/18	08/10/18			Y
CB09340	Iron	08/09/18	08/10/18			Y
CB09340	Lead	08/09/18	08/10/18			Y
CB09340	Magnesium	08/09/18	08/10/18			Y
CB09340	Manganese	08/09/18	08/10/18			Y
CB09340	Mercury	08/09/18	08/13/18			Y
CB09340	Nickel	08/09/18	08/10/18			Y
CB09340	Percent Solid	08/09/18	08/10/18	08/10/18	Q	Y
CB09340	Potassium	08/09/18	08/10/18			Y
CB09340	Selenium	08/09/18	08/10/18			Y
CB09340	Silver	08/09/18	08/10/18			Y
CB09340	Sodium	08/09/18	08/10/18			Y
CB09340	Thallium	08/09/18	08/10/18			Y
CB09340	Vanadium	08/09/18	08/10/18			Y
CB09340	Zinc	08/09/18	08/10/18			Y
CB09341	Aluminum	08/09/18	08/10/18			Y
CB09341	Antimony	08/09/18	08/10/18			Y
CB09341	Arsenic	08/09/18	08/10/18			Y
CB09341	Barium	08/09/18	08/10/18			Y
CB09341	Beryllium	08/09/18	08/10/18			Y
CB09341	Cadmium	08/09/18	08/10/18			Y
CB09341	Calcium	08/09/18	08/10/18			Y
CB09341	Chromium	08/09/18	08/10/18			Y
CB09341	Cobalt	08/09/18	08/10/18			Y

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August 17, 2018 **SDG I.D.: GCB09334**

Environmental Business Consultants 1013 ATLANTIC AVE., BROOKLYN

CB09341	Copper	08/09/18	08/10/18			Y
CB09341	Iron	08/09/18	08/10/18			Y
CB09341	Lead	08/09/18	08/10/18			Y
CB09341	Magnesium	08/09/18	08/10/18			Y
CB09341	Manganese	08/09/18	08/10/18			Y
CB09341	Mercury	08/09/18	08/13/18			Y
CB09341	Nickel	08/09/18	08/10/18			Y
CB09341	Percent Solid	08/09/18	08/10/18	08/10/18	Q	Y
CB09341	Potassium	08/09/18	08/10/18			Y
CB09341	Selenium	08/09/18	08/10/18			Y
CB09341	Silver	08/09/18	08/10/18			Y
CB09341	Sodium	08/09/18	08/10/18			Y
CB09341	Thallium	08/09/18	08/10/18			Y
CB09341	Vanadium	08/09/18	08/10/18			Y
CB09341	Zinc	08/09/18	08/10/18			Y
CB09342	Aluminum	08/09/18	08/10/18			Y
CB09342	Antimony	08/09/18	08/10/18			Y
CB09342	Arsenic	08/09/18	08/10/18			Y
CB09342	Barium	08/09/18	08/10/18			Y
CB09342	Beryllium	08/09/18	08/10/18			Y
CB09342	Cadmium	08/09/18	08/10/18			Y
CB09342	Calcium	08/09/18	08/10/18			Y
CB09342	Chromium	08/09/18	08/10/18			Y
CB09342	Cobalt	08/09/18	08/10/18			Y
CB09342	Copper	08/09/18	08/10/18			Y
CB09342	Iron	08/09/18	08/10/18			Y
CB09342	Lead	08/09/18	08/10/18			Y
CB09342	Magnesium	08/09/18	08/10/18			Y
CB09342	Manganese	08/09/18	08/10/18			Y
CB09342	Mercury	08/09/18	08/13/18			Y
CB09342	Nickel	08/09/18	08/10/18			Y
CB09342	Percent Solid	08/09/18	08/10/18	08/10/18	Q	Y
CB09342	Potassium	08/09/18	08/10/18			Y
CB09342	Selenium	08/09/18	08/10/18			Y
CB09342	Silver	08/09/18	08/10/18			Y
CB09342	Sodium	08/09/18	08/10/18			Y
CB09342	Thallium	08/09/18	08/10/18			Y

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

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NY Analytical Services Protocol Format

August 17, 2018 **SDG I.D.: GCB09334**

Environmental Business Consultants 1013 ATLANTIC AVE., BROOKLYN

CB09342	Vanadium	08/09/18	08/10/18			Y
CB09342	Zinc	08/09/18	08/10/18			Y

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

NY # 11301

SDG Comments

August 17, 2018

SDG I.D.: GCB09334

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

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TB	08/09/18	11:15
Location Code:	EBC	Received by:	LB	08/10/18	17:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB09334
Phoenix ID: CB09334

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB1 (8-10)

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	87				%		08/10/18	Q	SW846-%Solid	
Soil Extraction for SVOA	Completed						08/10/18	JJ/CKV	SW3545A	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
1,1,1-Trichloroethane	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
1,1,2,2-Tetrachloroethane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
1,1,2-Trichloroethane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
1,1-Dichloroethane	ND		270	56	ug/Kg	50	08/11/18	PS	SW8260C	
1,1-Dichloroethene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
1,1-Dichloropropene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
1,2,3-Trichlorobenzene	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
1,2,3-Trichloropropane	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
1,2,4-Trichlorobenzene	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
1,2,4-Trimethylbenzene	170	J	280	28	ug/Kg	50	08/11/18	PS	SW8260C	
1,2-Dibromo-3-chloropropane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
1,2-Dibromoethane	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
1,2-Dichlorobenzene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
1,2-Dichloroethane	ND		20	20	ug/Kg	50	08/11/18	PS	SW8260C	
1,2-Dichloropropane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
1,3,5-Trimethylbenzene	46	J	280	28	ug/Kg	50	08/11/18	PS	SW8260C	
1,3-Dichlorobenzene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
1,3-Dichloropropane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
1,4-Dichlorobenzene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
2,2-Dichloropropane	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
2-Chlorotoluene	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
2-Hexanone	ND		1400	280	ug/Kg	50	08/11/18	PS	SW8260C	
2-Isopropyltoluene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB1 (8-10)

Phoenix I.D.: CB09334

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
4-Methyl-2-pentanone	ND		1400	280	ug/Kg	50	08/11/18	PS	SW8260C	
Acetone	ND		50	50	ug/Kg	50	08/11/18	PS	SW8260C	
Acrylonitrile	ND		560	56	ug/Kg	50	08/11/18	PS	SW8260C	
Benzene	ND		60	28	ug/Kg	50	08/11/18	PS	SW8260C	
Bromobenzene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Bromochloromethane	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Bromodichloromethane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
Bromoform	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
Bromomethane	ND		280	110	ug/Kg	50	08/11/18	PS	SW8260C	
Carbon Disulfide	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
Carbon tetrachloride	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
Chlorobenzene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Chloroethane	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Chloroform	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Chloromethane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
cis-1,2-Dichloroethene	ND		250	28	ug/Kg	50	08/11/18	PS	SW8260C	
cis-1,3-Dichloropropene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Dibromochloromethane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
Dibromomethane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
Dichlorodifluoromethane	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Ethylbenzene	52	J	280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Hexachlorobutadiene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Isopropylbenzene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
m&p-Xylene	210	J	280	56	ug/Kg	50	08/11/18	PS	SW8260C	
Methyl Ethyl Ketone	ND		120	280	ug/Kg	50	08/11/18	PS	SW8260C	
Methyl t-butyl ether (MTBE)	ND		560	56	ug/Kg	50	08/11/18	PS	SW8260C	
Methylene chloride	ND		50	50	ug/Kg	50	08/11/18	PS	SW8260C	
Naphthalene	2900		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
n-Butylbenzene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
n-Propylbenzene	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
o-Xylene	110	J	280	56	ug/Kg	50	08/11/18	PS	SW8260C	
p-Isopropyltoluene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
sec-Butylbenzene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Styrene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
tert-Butylbenzene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Tetrachloroethene	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
Tetrahydrofuran (THF)	ND		560	140	ug/Kg	50	08/11/18	PS	SW8260C	1
Toluene	95	J	280	28	ug/Kg	50	08/11/18	PS	SW8260C	
trans-1,2-Dichloroethene	ND		190	28	ug/Kg	50	08/11/18	PS	SW8260C	
trans-1,3-Dichloropropene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
trans-1,4-dichloro-2-butene	ND		560	140	ug/Kg	50	08/11/18	PS	SW8260C	
Trichloroethene	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Trichlorofluoromethane	ND		280	56	ug/Kg	50	08/11/18	PS	SW8260C	
Trichlorotrifluoroethane	ND		280	28	ug/Kg	50	08/11/18	PS	SW8260C	
Vinyl chloride	ND		20	20	ug/Kg	50	08/11/18	PS	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	50	08/11/18	PS	70 - 130 %	
% Bromofluorobenzene	99				%	50	08/11/18	PS	70 - 130 %	

Ver 1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB1 (8-10)

Phoenix I.D.: CB09334

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane	94				%	50	08/11/18	PS	70 - 130 %	
% Toluene-d8	99				%	50	08/11/18	PS	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		2200	2200	ug/kg	50	08/11/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	50	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	99				%	50	08/11/18	JLI	70 - 130 %	
% Toluene-d8	99				%	50	08/11/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		1100	56	ug/Kg	50	08/11/18	JLI	SW8260C	
Acrolein	ND		280	56	ug/Kg	50	08/11/18	JLI	SW8260C	
Acrylonitrile	ND		1100	28	ug/Kg	50	08/11/18	JLI	SW8260C	
Tert-butyl alcohol	ND		5600	1100	ug/Kg	50	08/11/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		270	130	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2,4-Trichlorobenzene	ND		270	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Dichlorobenzene	ND		270	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Diphenylhydrazine	ND		270	120	ug/Kg	1	08/11/18	KCA	SW8270D	
1,3-Dichlorobenzene	ND		270	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,4-Dichlorobenzene	ND		270	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,5-Trichlorophenol	ND		270	210	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,6-Trichlorophenol	ND		190	120	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dichlorophenol	ND		190	130	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dimethylphenol	ND		270	94	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrophenol	ND		270	270	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	08/11/18	KCA	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chloronaphthalene	ND		270	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chlorophenol	ND		270	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylnaphthalene	330		270	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylphenol (o-cresol)	ND		270	180	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitroaniline	ND		270	270	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitrophenol	ND		270	240	ug/Kg	1	08/11/18	KCA	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		270	150	ug/Kg	1	08/11/18	KCA	SW8270D	1
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	08/11/18	KCA	SW8270D	
3-Nitroaniline	ND		380	760	ug/Kg	1	08/11/18	KCA	SW8270D	
4,6-Dinitro-2-methylphenol	ND		230	76	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Bromophenyl phenyl ether	ND		270	110	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloro-3-methylphenol	ND		270	130	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloroaniline	ND		300	180	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chlorophenyl phenyl ether	ND		270	130	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitroaniline	ND		380	130	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitrophenol	ND		380	170	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthene	840		270	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthylene	150	J	270	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Acetophenone	ND		270	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Aniline	ND		300	300	ug/Kg	1	08/11/18	KCA	SW8270D	

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB1 (8-10)

Phoenix I.D.: CB09334

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Anthracene	1700	270	120	ug/Kg	1	08/11/18	KCA	SW8270D
Benz(a)anthracene	2600	270	130	ug/Kg	1	08/11/18	KCA	SW8270D
Benzidine	ND	380	220	ug/Kg	1	08/11/18	KCA	SW8270D
Benzo(a)pyrene	1500	190	120	ug/Kg	1	08/11/18	KCA	SW8270D
Benzo(b)fluoranthene	2000	270	130	ug/Kg	1	08/11/18	KCA	SW8270D
Benzo(ghi)perylene	1300	270	120	ug/Kg	1	08/11/18	KCA	SW8270D
Benzo(k)fluoranthene	1700	270	130	ug/Kg	1	08/11/18	KCA	SW8270D
Benzoic acid	ND	1900	760	ug/Kg	1	08/11/18	KCA	SW8270D
Benzyl butyl phthalate	ND	270	98	ug/Kg	1	08/11/18	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	100	ug/Kg	1	08/11/18	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	08/11/18	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	08/11/18	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	08/11/18	KCA	SW8270D
Carbazole	700	190	150	ug/Kg	1	08/11/18	KCA	SW8270D
Chrysene	2600	270	130	ug/Kg	1	08/11/18	KCA	SW8270D
Dibenz(a,h)anthracene	360	190	120	ug/Kg	1	08/11/18	KCA	SW8270D
Dibenzofuran	730	270	110	ug/Kg	1	08/11/18	KCA	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	08/11/18	KCA	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	08/11/18	KCA	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	08/11/18	KCA	SW8270D
Di-n-octylphthalate	ND	270	98	ug/Kg	1	08/11/18	KCA	SW8270D
Fluoranthene	4500	270	120	ug/Kg	1	08/11/18	KCA	SW8270D
Fluorene	950	270	130	ug/Kg	1	08/11/18	KCA	SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	08/11/18	KCA	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	08/11/18	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	08/11/18	KCA	SW8270D
Hexachloroethane	ND	190	110	ug/Kg	1	08/11/18	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1500	270	130	ug/Kg	1	08/11/18	KCA	SW8270D
Isophorone	ND	190	110	ug/Kg	1	08/11/18	KCA	SW8270D
Naphthalene	760	270	110	ug/Kg	1	08/11/18	KCA	SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	08/11/18	KCA	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	08/11/18	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	08/11/18	KCA	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	08/11/18	KCA	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	08/11/18	KCA	SW8270D
Pentachlorophenol	ND	230	140	ug/Kg	1	08/11/18	KCA	SW8270D
Phenanthrene	5000	270	110	ug/Kg	1	08/11/18	KCA	SW8270D
Phenol	ND	270	120	ug/Kg	1	08/11/18	KCA	SW8270D
Pyrene	4400	270	130	ug/Kg	1	08/11/18	KCA	SW8270D
Pyridine	ND	270	94	ug/Kg	1	08/11/18	KCA	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	81			%	1	08/11/18	KCA	30 - 130 %
% 2-Fluorobiphenyl	66			%	1	08/11/18	KCA	30 - 130 %
% 2-Fluorophenol	57			%	1	08/11/18	KCA	30 - 130 %
% Nitrobenzene-d5	64			%	1	08/11/18	KCA	30 - 130 %
% Phenol-d5	63			%	1	08/11/18	KCA	30 - 130 %
% Terphenyl-d14	65			%	1	08/11/18	KCA	30 - 130 %
Field Extraction	Completed					08/09/18		SW5035A 1

Project ID: 1013 ATLANTIC AVE., BROOKLYN

Client ID: SB1 (8-10)

Phoenix I.D.: CB09334

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 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 (preceeded 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:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

August 17, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TB	08/09/18	11:45
Location Code:	EBC	Received by:	LB	08/10/18	17:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB09334
Phoenix ID: CB09335

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB2 (18-20)

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	91				%		08/10/18	Q	SW846-%Solid	
Soil Extraction for SVOA	Completed						08/10/18	JJ/CKV	SW3545A	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,1-Trichloroethane	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,2-Trichloroethane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloroethane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloroethene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloropropene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	5.7		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dibromoethane	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichloroethane	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichloropropane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	1.3	J	4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3-Dichloropropane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
2,2-Dichloropropane	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Chlorotoluene	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Hexanone	ND		20	4.0	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Isopropyltoluene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB2 (18-20)

Phoenix I.D.: CB09335

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		20	4.0	ug/Kg	1	08/11/18	JLI	SW8260C	
Acetone	7.8	JS	20	4.0	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrylonitrile	ND		7.9	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Benzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromobenzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromochloromethane	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromodichloromethane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromoform	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromomethane	ND		4.0	1.6	ug/Kg	1	08/11/18	JLI	SW8260C	
Carbon Disulfide	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Carbon tetrachloride	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Chlorobenzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloroethane	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloroform	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloromethane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Dibromochloromethane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Dibromomethane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Ethylbenzene	1.9	J	4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Hexachlorobutadiene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Isopropylbenzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
m&p-Xylene	7.8		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		24	4.0	ug/Kg	1	08/11/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		7.9	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Methylene chloride	4.7	S	4.0	4.0	ug/Kg	1	08/11/18	JLI	SW8260C	
Naphthalene	6.8		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
n-Butylbenzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
n-Propylbenzene	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
o-Xylene	4.5		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
p-Isopropyltoluene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
sec-Butylbenzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Styrene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
tert-Butylbenzene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Tetrachloroethene	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		7.9	2.0	ug/Kg	1	08/11/18	JLI	SW8260C	1
Toluene	5.1		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		7.9	2.0	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichloroethene	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichlorofluoromethane	ND		4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Vinyl chloride	ND		4.0	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	98				%	1	08/11/18	JLI	70 - 130 %	

Ver 1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB2 (18-20)

Phoenix I.D.: CB09335

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane	94			%	1	08/11/18	JLI	70 - 130 %	
% Toluene-d8	98			%	1	08/11/18	JLI	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	59	32	ug/kg	1	08/11/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	98			%	1	08/11/18	JLI	70 - 130 %	
% Toluene-d8	98			%	1	08/11/18	JLI	70 - 130 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	16	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrolein	ND	4.0	0.79	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrylonitrile	ND	16	0.40	ug/Kg	1	08/11/18	JLI	SW8260C	
Tert-butyl alcohol	ND	79	16	ug/Kg	1	08/11/18	JLI	SW8260C	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dimethylphenol	ND	250	88	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	08/11/18	KCA	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitrophenol	ND	250	230	ug/Kg	1	08/11/18	KCA	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	1
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	08/11/18	KCA	SW8270D	
3-Nitroaniline	ND	360	710	ug/Kg	1	08/11/18	KCA	SW8270D	
4,6-Dinitro-2-methylphenol	ND	210	71	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloroaniline	ND	290	170	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitroaniline	ND	360	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitrophenol	ND	360	160	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthylene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Acetophenone	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Aniline	ND	290	290	ug/Kg	1	08/11/18	KCA	SW8270D	

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB2 (18-20)

Phoenix I.D.: CB09335

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Anthracene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benz(a)anthracene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzidine	ND	360	210	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(a)pyrene	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(ghi)perylene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzoic acid	ND	1800	710	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzyl butyl phthalate	ND	250	92	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethoxy)methane	ND	250	98	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethyl)ether	ND	180	96	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroisopropyl)ether	ND	250	99	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Carbazole	ND	180	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Chrysene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenzofuran	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Diethyl phthalate	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Dimethylphthalate	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-butylphthalate	ND	250	95	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-octylphthalate	ND	250	92	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluorene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobenzene	ND	180	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobutadiene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachloroethane	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Isophorone	ND	180	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Naphthalene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Nitrobenzene	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachlorophenol	ND	210	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenanthrene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenol	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyrene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyridine	ND	250	88	ug/Kg	1	08/11/18	KCA	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	64			%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorobiphenyl	65			%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorophenol	55			%	1	08/11/18	KCA	30 - 130 %	
% Nitrobenzene-d5	57			%	1	08/11/18	KCA	30 - 130 %	
% Phenol-d5	53			%	1	08/11/18	KCA	30 - 130 %	
% Terphenyl-d14	63			%	1	08/11/18	KCA	30 - 130 %	
Field Extraction	Completed					08/09/18		SW5035A	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN

Client ID: SB2 (18-20)

Phoenix I.D.: CB09335

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 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 (preceeded 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.

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 there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director

August 17, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TB	08/09/18	12:15
Location Code:	EBC	Received by:	LB	08/10/18	17:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB09334
Phoenix ID: CB09336

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB3 (13-15)

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	92				%		08/10/18	Q	SW846-%Solid	
Soil Extraction for SVOA	Completed						08/10/18	JJ/CKV	SW3545A	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,1-Trichloroethane	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,2-Trichloroethane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloroethane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloroethene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloropropene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	1.4	J	3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dibromoethane	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichloroethane	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichloropropane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3-Dichloropropane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
2,2-Dichloropropane	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Chlorotoluene	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Hexanone	ND		19	3.8	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Isopropyltoluene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB3 (13-15)

Phoenix I.D.: CB09336

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		19	3.8	ug/Kg	1	08/11/18	JLI	SW8260C	
Acetone	12	JS	19	3.8	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrylonitrile	ND		7.5	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Benzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromobenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromochloromethane	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromodichloromethane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromoform	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromomethane	ND		3.8	1.5	ug/Kg	1	08/11/18	JLI	SW8260C	
Carbon Disulfide	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Carbon tetrachloride	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Chlorobenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloroethane	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloroform	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloromethane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Dibromochloromethane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Dibromomethane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Ethylbenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Hexachlorobutadiene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Isopropylbenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
m&p-Xylene	1.4	J	3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		23	3.8	ug/Kg	1	08/11/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		7.5	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Methylene chloride	ND		3.8	3.8	ug/Kg	1	08/11/18	JLI	SW8260C	
Naphthalene	1.7	J	3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
n-Butylbenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
n-Propylbenzene	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
o-Xylene	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
p-Isopropyltoluene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
sec-Butylbenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Styrene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
tert-Butylbenzene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Tetrachloroethene	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		7.5	1.9	ug/Kg	1	08/11/18	JLI	SW8260C	1
Toluene	1.1	J	3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		7.5	1.9	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichloroethene	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichlorofluoromethane	ND		3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Vinyl chloride	ND		3.8	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	98				%	1	08/11/18	JLI	70 - 130 %	

Ver 1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB3 (13-15)

Phoenix I.D.: CB09336

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane	95			%	1	08/11/18	JLI	70 - 130 %	
% Toluene-d8	99			%	1	08/11/18	JLI	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	56	30	ug/kg	1	08/11/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	1	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	98			%	1	08/11/18	JLI	70 - 130 %	
% Toluene-d8	99			%	1	08/11/18	JLI	70 - 130 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	15	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrolein	ND	3.8	0.75	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrylonitrile	ND	15	0.38	ug/Kg	1	08/11/18	JLI	SW8260C	
Tert-butyl alcohol	ND	75	15	ug/Kg	1	08/11/18	JLI	SW8260C	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dimethylphenol	ND	250	88	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	08/11/18	KCA	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitrophenol	ND	250	220	ug/Kg	1	08/11/18	KCA	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	1
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	08/11/18	KCA	SW8270D	
3-Nitroaniline	ND	350	710	ug/Kg	1	08/11/18	KCA	SW8270D	
4,6-Dinitro-2-methylphenol	ND	210	71	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloroaniline	ND	280	160	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitroaniline	ND	350	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitrophenol	ND	350	160	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthylene	ND	250	99	ug/Kg	1	08/11/18	KCA	SW8270D	
Acetophenone	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Aniline	ND	280	280	ug/Kg	1	08/11/18	KCA	SW8270D	

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB3 (13-15)

Phoenix I.D.: CB09336

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Anthracene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benz(a)anthracene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzidine	ND	350	210	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(a)pyrene	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzoic acid	ND	1800	710	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethyl)ether	ND	180	95	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroisopropyl)ether	ND	250	98	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Carbazole	ND	180	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Chrysene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenzofuran	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Diethyl phthalate	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Dimethylphthalate	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-butylphthalate	ND	250	94	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-octylphthalate	ND	250	91	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluoranthene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluorene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobenzene	ND	180	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobutadiene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachloroethane	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Isophorone	ND	180	99	ug/Kg	1	08/11/18	KCA	SW8270D	
Naphthalene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Nitrobenzene	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachlorophenol	ND	210	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenanthrene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenol	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyrene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyridine	ND	250	87	ug/Kg	1	08/11/18	KCA	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	75			%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorobiphenyl	64			%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorophenol	57			%	1	08/11/18	KCA	30 - 130 %	
% Nitrobenzene-d5	63			%	1	08/11/18	KCA	30 - 130 %	
% Phenol-d5	61			%	1	08/11/18	KCA	30 - 130 %	
% Terphenyl-d14	60			%	1	08/11/18	KCA	30 - 130 %	
Field Extraction	Completed					08/09/18		SW5035A	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN

Client ID: SB3 (13-15)

Phoenix I.D.: CB09336

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 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 (preceeded 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.

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 there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director

August 17, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TB	08/09/18	13:15
Location Code:	EBC	Received by:	LB	08/10/18	17:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB09334
Phoenix ID: CB09337

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB6 (18-20)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	91			%		08/10/18	Q	SW846-%Solid	
Soil Extraction for SVOA	Completed					08/10/18	JJ/CKV	SW3545A	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloroethane	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloroethene	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloropropene	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dibromoethane	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichloroethane	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichloropropane	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3-Dichloropropane	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
2,2-Dichloropropane	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Chlorotoluene	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Hexanone	ND	22	4.3	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Isopropyltoluene	ND	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB6 (18-20)

Phoenix I.D.: CB09337

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		22	4.3	ug/Kg	1	08/11/18	JLI	SW8260C	
Acetone	6.4	JS	22	4.3	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrylonitrile	ND		8.7	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Benzene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromobenzene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromochloromethane	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromodichloromethane	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromoform	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromomethane	ND		4.3	1.7	ug/Kg	1	08/11/18	JLI	SW8260C	
Carbon Disulfide	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Carbon tetrachloride	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Chlorobenzene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloroethane	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloroform	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloromethane	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Dibromochloromethane	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Dibromomethane	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Ethylbenzene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Hexachlorobutadiene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Isopropylbenzene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
m&p-Xylene	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		26	4.3	ug/Kg	1	08/11/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		8.7	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Methylene chloride	ND		4.3	4.3	ug/Kg	1	08/11/18	JLI	SW8260C	
Naphthalene	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
n-Butylbenzene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
n-Propylbenzene	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
o-Xylene	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
p-Isopropyltoluene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
sec-Butylbenzene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Styrene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
tert-Butylbenzene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Tetrachloroethene	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		8.7	2.2	ug/Kg	1	08/11/18	JLI	SW8260C	1
Toluene	0.77	J	4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		8.7	2.2	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichloroethene	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichlorofluoromethane	ND		4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Vinyl chloride	ND		4.3	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	99				%	1	08/11/18	JLI	70 - 130 %	

Ver 1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB6 (18-20)

Phoenix I.D.: CB09337

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane	96			%	1	08/11/18	JLI	70 - 130 %	
% Toluene-d8	99			%	1	08/11/18	JLI	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	65	35	ug/kg	1	08/11/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	99			%	1	08/11/18	JLI	70 - 130 %	
% Toluene-d8	99			%	1	08/11/18	JLI	70 - 130 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	17	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrolein	ND	4.3	0.87	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrylonitrile	ND	17	0.43	ug/Kg	1	08/11/18	JLI	SW8260C	
Tert-butyl alcohol	ND	87	17	ug/Kg	1	08/11/18	JLI	SW8260C	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dimethylphenol	ND	250	89	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	08/11/18	KCA	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitrophenol	ND	250	230	ug/Kg	1	08/11/18	KCA	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	1
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	08/11/18	KCA	SW8270D	
3-Nitroaniline	ND	360	720	ug/Kg	1	08/11/18	KCA	SW8270D	
4,6-Dinitro-2-methylphenol	ND	220	72	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloroaniline	ND	290	170	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitroaniline	ND	360	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitrophenol	ND	360	160	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthylene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Acetophenone	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Aniline	ND	290	290	ug/Kg	1	08/11/18	KCA	SW8270D	

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB6 (18-20)

Phoenix I.D.: CB09337

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Anthracene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benz(a)anthracene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzidine	ND	360	210	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(a)pyrene	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(ghi)perylene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzoic acid	ND	1800	720	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzyl butyl phthalate	ND	250	93	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethoxy)methane	ND	250	99	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethyl)ether	ND	180	97	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroisopropyl)ether	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Carbazole	ND	180	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Chrysene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenzofuran	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Diethyl phthalate	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Dimethylphthalate	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-butylphthalate	ND	250	96	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-octylphthalate	ND	250	93	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluorene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobenzene	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobutadiene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachloroethane	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Isophorone	ND	180	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Naphthalene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Nitrobenzene	ND	180	130	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachlorophenol	ND	220	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenanthrene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenol	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyrene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyridine	ND	250	89	ug/Kg	1	08/11/18	KCA	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	75			%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorobiphenyl	65			%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorophenol	60			%	1	08/11/18	KCA	30 - 130 %	
% Nitrobenzene-d5	61			%	1	08/11/18	KCA	30 - 130 %	
% Phenol-d5	64			%	1	08/11/18	KCA	30 - 130 %	
% Terphenyl-d14	63			%	1	08/11/18	KCA	30 - 130 %	
Field Extraction	Completed					08/09/18		SW5035A	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN

Client ID: SB6 (18-20)

Phoenix I.D.: CB09337

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 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 (preceeded 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.

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 there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director

August 17, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TB	08/09/18	12:45
Location Code:	EBC	Received by:	LB	08/10/18	17:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB09334
Phoenix ID: CB09338

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB7 (18-20)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	91			%		08/10/18	Q	SW846-%Solid	
Soil Extraction for SVOA	Completed					08/10/18	JJ/CKV	SW3545A	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloroethane	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloroethene	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,1-Dichloropropene	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dibromoethane	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichloroethane	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,2-Dichloropropane	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
1,3-Dichloropropane	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
2,2-Dichloropropane	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Chlorotoluene	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Hexanone	ND	21	4.2	ug/Kg	1	08/11/18	JLI	SW8260C	
2-Isopropyltoluene	ND	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB7 (18-20)

Phoenix I.D.: CB09338

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		21	4.2	ug/Kg	1	08/11/18	JLI	SW8260C	
Acetone	5.4	JS	21	4.2	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrylonitrile	ND		8.4	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Benzene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromobenzene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromochloromethane	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromodichloromethane	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromoform	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Bromomethane	ND		4.2	1.7	ug/Kg	1	08/11/18	JLI	SW8260C	
Carbon Disulfide	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Carbon tetrachloride	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Chlorobenzene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloroethane	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloroform	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Chloromethane	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Dibromochloromethane	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Dibromomethane	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Ethylbenzene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Hexachlorobutadiene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Isopropylbenzene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
m&p-Xylene	1.1	J	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		25	4.2	ug/Kg	1	08/11/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		8.4	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Methylene chloride	ND		4.2	4.2	ug/Kg	1	08/11/18	JLI	SW8260C	
Naphthalene	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
n-Butylbenzene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
n-Propylbenzene	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
o-Xylene	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
p-Isopropyltoluene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
sec-Butylbenzene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Styrene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
tert-Butylbenzene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Tetrachloroethene	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		8.4	2.1	ug/Kg	1	08/11/18	JLI	SW8260C	1
Toluene	1.1	J	4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		8.4	2.1	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichloroethene	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichlorofluoromethane	ND		4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Vinyl chloride	ND		4.2	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	98				%	1	08/11/18	JLI	70 - 130 %	

Ver 1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB7 (18-20)

Phoenix I.D.: CB09338

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane	96			%	1	08/11/18	JLI	70 - 130 %	
% Toluene-d8	99			%	1	08/11/18	JLI	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	63	33	ug/kg	1	08/11/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	98			%	1	08/11/18	JLI	70 - 130 %	
% Toluene-d8	99			%	1	08/11/18	JLI	70 - 130 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	17	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrolein	ND	4.2	0.84	ug/Kg	1	08/11/18	JLI	SW8260C	
Acrylonitrile	ND	17	0.42	ug/Kg	1	08/11/18	JLI	SW8260C	
Tert-butyl alcohol	ND	84	17	ug/Kg	1	08/11/18	JLI	SW8260C	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dimethylphenol	ND	250	90	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	08/11/18	KCA	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitrophenol	ND	250	230	ug/Kg	1	08/11/18	KCA	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	1
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	08/11/18	KCA	SW8270D	
3-Nitroaniline	ND	360	730	ug/Kg	1	08/11/18	KCA	SW8270D	
4,6-Dinitro-2-methylphenol	ND	220	73	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloroaniline	ND	290	170	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitroaniline	ND	360	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitrophenol	ND	360	160	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthylene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Acetophenone	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Aniline	ND	290	290	ug/Kg	1	08/11/18	KCA	SW8270D	

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB7 (18-20)

Phoenix I.D.: CB09338

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Anthracene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benz(a)anthracene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzidine	ND	360	210	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(a)pyrene	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(ghi)perylene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzoic acid	ND	1800	730	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzyl butyl phthalate	ND	250	94	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethoxy)methane	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethyl)ether	ND	180	98	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroisopropyl)ether	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Carbazole	ND	180	150	ug/Kg	1	08/11/18	KCA	SW8270D	
Chrysene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenzofuran	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Diethyl phthalate	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Dimethylphthalate	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-butylphthalate	ND	250	97	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-octylphthalate	ND	250	94	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluoranthene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluorene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobenzene	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobutadiene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachloroethane	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Isophorone	ND	180	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Naphthalene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Nitrobenzene	ND	180	130	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachloronitrobenzene	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachlorophenol	ND	220	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenanthrene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenol	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyrene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyridine	ND	250	89	ug/Kg	1	08/11/18	KCA	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	64			%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorobiphenyl	58			%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorophenol	44			%	1	08/11/18	KCA	30 - 130 %	
% Nitrobenzene-d5	50			%	1	08/11/18	KCA	30 - 130 %	
% Phenol-d5	53			%	1	08/11/18	KCA	30 - 130 %	
% Terphenyl-d14	64			%	1	08/11/18	KCA	30 - 130 %	
Field Extraction	Completed					08/09/18		SW5035A	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN

Phoenix I.D.: CB09338

Client ID: SB7 (18-20)

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 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 (preceeded 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.

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 there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

August 17, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TB	08/09/18	10:45
Location Code:	EBC	Received by:	LB	08/10/18	17:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB09334
Phoenix ID: CB09339

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB8 (18-20)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92			%		08/10/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed					08/10/18	JJ/CKV	SW3545A
Volatiles								
1,1,1,2-Tetrachloroethane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C
1,1,1-Trichloroethane	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C
1,1,2,2-Tetrachloroethane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C
1,1,2-Trichloroethane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C
1,1-Dichloroethane	ND	270	78	ug/Kg	50	08/11/18	PS	SW8260C
1,1-Dichloroethene	ND	330	39	ug/Kg	50	08/11/18	PS	SW8260C
1,1-Dichloropropene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C
1,2,3-Trichlorobenzene	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C
1,2,3-Trichloropropane	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C
1,2,4-Trichlorobenzene	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C
1,2,4-Trimethylbenzene	180000	3600	780	ug/Kg	1000	08/14/18	PS	SW8260C
1,2-Dibromo-3-chloropropane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C
1,2-Dibromoethane	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C
1,2-Dichlorobenzene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C
1,2-Dichloroethane	ND	39	39	ug/Kg	50	08/11/18	PS	SW8260C
1,2-Dichloropropane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C
1,3,5-Trimethylbenzene	52000	7800	780	ug/Kg	1000	08/14/18	PS	SW8260C
1,3-Dichlorobenzene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C
1,3-Dichloropropane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C
1,4-Dichlorobenzene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C
2,2-Dichloropropane	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C
2-Chlorotoluene	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C
2-Hexanone	ND	1900	390	ug/Kg	50	08/11/18	PS	SW8260C
2-Isopropyltoluene	340 J	390	39	ug/Kg	50	08/11/18	PS	SW8260C 1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB8 (18-20)

Phoenix I.D.: CB09339

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
4-Methyl-2-pentanone	ND	1900	390	ug/Kg	50	08/11/18	PS	SW8260C	
Acetone	ND	390	390	ug/Kg	50	08/11/18	PS	SW8260C	
Acrylonitrile	ND	780	78	ug/Kg	50	08/11/18	PS	SW8260C	
Benzene	1200	780	780	ug/Kg	1000	08/14/18	PS	SW8260C	
Bromobenzene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Bromochloromethane	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Bromodichloromethane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C	
Bromoform	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C	
Bromomethane	ND	390	160	ug/Kg	50	08/11/18	PS	SW8260C	
Carbon Disulfide	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C	
Carbon tetrachloride	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C	
Chlorobenzene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Chloroethane	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Chloroform	ND	370	39	ug/Kg	50	08/11/18	PS	SW8260C	
Chloromethane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C	
cis-1,2-Dichloroethene	ND	250	39	ug/Kg	50	08/11/18	PS	SW8260C	
cis-1,3-Dichloropropene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Dibromochloromethane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C	
Dibromomethane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C	
Dichlorodifluoromethane	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Ethylbenzene	86000	1000	780	ug/Kg	1000	08/14/18	PS	SW8260C	
Hexachlorobutadiene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Isopropylbenzene	9900	3900	390	ug/Kg	500	08/13/18	PS	SW8260C	
m&p-Xylene	310000	7800	1600	ug/Kg	1000	08/14/18	PS	SW8260C	
Methyl Ethyl Ketone	ND	160	160	ug/Kg	50	08/11/18	PS	SW8260C	
Methyl t-butyl ether (MTBE)	ND	780	78	ug/Kg	50	08/11/18	PS	SW8260C	
Methylene chloride	ND	390	390	ug/Kg	50	08/11/18	PS	SW8260C	
Naphthalene	21000	3900	780	ug/Kg	500	08/13/18	PS	SW8260C	
n-Butylbenzene	6600	3900	390	ug/Kg	500	08/13/18	PS	SW8260C	
n-Propylbenzene	29000	3900	780	ug/Kg	500	08/13/18	PS	SW8260C	
o-Xylene	130000	3900	780	ug/Kg	500	08/13/18	PS	SW8260C	
p-Isopropyltoluene	1300	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
sec-Butylbenzene	3200	3100	390	ug/Kg	500	08/13/18	PS	SW8260C	
Styrene	ND	780	620	ug/Kg	50	08/11/18	PS	SW8260C	
tert-Butylbenzene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Tetrachloroethene	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C	
Tetrahydrofuran (THF)	ND	780	190	ug/Kg	50	08/11/18	PS	SW8260C	1
Toluene	250000	780	780	ug/Kg	1000	08/14/18	PS	SW8260C	
trans-1,2-Dichloroethene	ND	190	39	ug/Kg	50	08/11/18	PS	SW8260C	
trans-1,3-Dichloropropene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
trans-1,4-dichloro-2-butene	ND	780	190	ug/Kg	50	08/11/18	PS	SW8260C	
Trichloroethene	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Trichlorofluoromethane	ND	390	78	ug/Kg	50	08/11/18	PS	SW8260C	
Trichlorotrifluoroethane	ND	390	39	ug/Kg	50	08/11/18	PS	SW8260C	
Vinyl chloride	ND	39	39	ug/Kg	50	08/11/18	PS	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	50	08/11/18	PS	70 - 130 %	
% Bromofluorobenzene	113			%	50	08/11/18	PS	70 - 130 %	

Ver 1

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB8 (18-20)

Phoenix I.D.: CB09339

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane	94			%	50	08/11/18	PS	70 - 130 %	
% Toluene-d8	86			%	50	08/11/18	PS	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	3100	3100	ug/kg	50	08/11/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	50	08/11/18	JLI	70 - 130 %	
% Bromofluorobenzene	113			%	50	08/11/18	JLI	70 - 130 %	
% Toluene-d8	86			%	50	08/11/18	JLI	70 - 130 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1600	78	ug/Kg	50	08/11/18	JLI	SW8260C	
Acrolein	ND	390	78	ug/Kg	50	08/11/18	JLI	SW8260C	
Acrylonitrile	ND	1600	39	ug/Kg	50	08/11/18	JLI	SW8260C	
Tert-butyl alcohol	ND	7800	1600	ug/Kg	50	08/11/18	JLI	SW8260C	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dimethylphenol	ND	250	88	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	08/11/18	KCA	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylnaphthalene	3900	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	08/11/18	KCA	SW8270D	
2-Nitrophenol	ND	250	230	ug/Kg	1	08/11/18	KCA	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	08/11/18	KCA	SW8270D	1
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	08/11/18	KCA	SW8270D	
3-Nitroaniline	ND	360	710	ug/Kg	1	08/11/18	KCA	SW8270D	
4,6-Dinitro-2-methylphenol	ND	210	71	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chloroaniline	ND	280	170	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitroaniline	ND	360	120	ug/Kg	1	08/11/18	KCA	SW8270D	
4-Nitrophenol	ND	360	160	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthene	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Acenaphthylene	ND	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Acetophenone	ND	250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Aniline	ND	280	280	ug/Kg	1	08/11/18	KCA	SW8270D	

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB8 (18-20)

Phoenix I.D.: CB09339

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Anthracene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benz(a)anthracene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzidine	ND		360	210	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(a)pyrene	ND		180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(b)fluoranthene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(ghi)perylene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzo(k)fluoranthene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzoic acid	ND		1800	710	ug/Kg	1	08/11/18	KCA	SW8270D	
Benzyl butyl phthalate	ND		250	92	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethoxy)methane	ND		250	98	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroethyl)ether	ND		180	96	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-chloroisopropyl)ether	ND		250	99	ug/Kg	1	08/11/18	KCA	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Carbazole	ND		180	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Chrysene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenz(a,h)anthracene	ND		180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Dibenzofuran	ND		250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Diethyl phthalate	ND		250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Dimethylphthalate	ND		250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-butylphthalate	ND		250	95	ug/Kg	1	08/11/18	KCA	SW8270D	
Di-n-octylphthalate	ND		250	92	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluoranthene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Fluorene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobenzene	ND		180	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorobutadiene	ND		250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Hexachloroethane	ND		180	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Indeno(1,2,3-cd)pyrene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Isophorone	ND		180	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Naphthalene	2900		250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Nitrobenzene	ND		180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodimethylamine	ND		250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodi-n-propylamine	ND		180	120	ug/Kg	1	08/11/18	KCA	SW8270D	
N-Nitrosodiphenylamine	ND		250	140	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachloronitrobenzene	ND		250	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Pentachlorophenol	ND		210	130	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenanthrene	130	J	250	100	ug/Kg	1	08/11/18	KCA	SW8270D	
Phenol	ND		250	110	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyrene	ND		250	120	ug/Kg	1	08/11/18	KCA	SW8270D	
Pyridine	ND		250	88	ug/Kg	1	08/11/18	KCA	SW8270D	
QA/QC Surrogates										
% 2,4,6-Tribromophenol	77				%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorobiphenyl	66				%	1	08/11/18	KCA	30 - 130 %	
% 2-Fluorophenol	60				%	1	08/11/18	KCA	30 - 130 %	
% Nitrobenzene-d5	60				%	1	08/11/18	KCA	30 - 130 %	
% Phenol-d5	59				%	1	08/11/18	KCA	30 - 130 %	
% Terphenyl-d14	67				%	1	08/11/18	KCA	30 - 130 %	
Field Extraction	Completed						08/09/18		SW5035A	1

Project ID: 1013 ATLANTIC AVE., BROOKLYN

Client ID: SB8 (18-20)

Phoenix I.D.: CB09339

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 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 (preceeded 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:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Volatile Comment:
Due to the presence of a large amount of non-target petroleum material, this sample required a dilution. Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director

August 17, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TB	08/09/18	12:00
Location Code:	EBC	Received by:	LB	08/10/18	17:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB09334
Phoenix ID: CB09340

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB3 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.35	0.35	mg/Kg	1	08/13/18	EK	SW6010C
Aluminum	9320	35	7.1	mg/Kg	10	08/13/18	EK	SW6010C
Arsenic	4.21	0.71	0.71	mg/Kg	1	08/13/18	EK	SW6010C
Barium	169	0.7	0.35	mg/Kg	1	08/13/18	EK	SW6010C
Beryllium	0.48	0.28	0.14	mg/Kg	1	08/13/18	EK	SW6010C
Calcium	14100	35	32	mg/Kg	10	08/13/18	EK	SW6010C
Cadmium	0.63	0.35	0.35	mg/Kg	1	08/13/18	EK	SW6010C
Cobalt	8.39	0.35	0.35	mg/Kg	1	08/13/18	EK	SW6010C
Chromium	23.9	0.35	0.35	mg/Kg	1	08/13/18	EK	SW6010C
Copper	29.0	0.7	0.35	mg/kg	1	08/13/18	EK	SW6010C
Iron	21900	35	35	mg/Kg	10	08/13/18	EK	SW6010C
Mercury	0.36	0.03	0.02	mg/Kg	1	08/13/18	RS	SW7471B
Potassium	1490	7	2.8	mg/Kg	1	08/13/18	EK	SW6010C
Magnesium	5980	35	35	mg/Kg	10	08/13/18	EK	SW6010C
Manganese	385	3.5	3.5	mg/Kg	10	08/13/18	EK	SW6010C
Sodium	567	7	3.0	mg/Kg	1	08/13/18	EK	SW6010C
Nickel	26.0	0.35	0.35	mg/Kg	1	08/13/18	EK	SW6010C
Lead	240	7.1	3.5	mg/Kg	10	08/13/18	EK	SW6010C
Antimony	ND	3.5	3.5	mg/Kg	1	08/13/18	EK	SW6010C
Selenium	ND	1.4	1.2	mg/Kg	1	08/13/18	EK	SW6010C
Thallium	ND	1.4	1.4	mg/Kg	1	08/13/18	EK	SW6010C
Vanadium	32.3	0.35	0.35	mg/Kg	1	08/13/18	EK	SW6010C
Zinc	159	7.1	3.5	mg/Kg	10	08/13/18	EK	SW6010C
Percent Solid	92			%		08/10/18	Q	SW846-%Solid
Mercury Digestion	Completed					08/13/18	I/I	SW7471B
Total Metals Digest	Completed					08/10/18	T/AG/BF	SW3050B

Project ID: 1013 ATLANTIC AVE., BROOKLYN

Client ID: SB3 (0-2)

Phoenix I.D.: CB09340

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

Comments:

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 there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director

August 17, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TB	08/09/18	14:00
Location Code:	EBC	Received by:	LB	08/10/18	17:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB09334
Phoenix ID: CB09341

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB5 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.37	0.37	mg/Kg	1	08/13/18	EK	SW6010C
Aluminum	6160	37	7.4	mg/Kg	10	08/13/18	EK	SW6010C
Arsenic	8.83	0.74	0.74	mg/Kg	1	08/13/18	EK	SW6010C
Barium	799	0.7	0.37	mg/Kg	1	08/13/18	EK	SW6010C
Beryllium	0.33	0.30	0.15	mg/Kg	1	08/13/18	EK	SW6010C
Calcium	53800	37	34	mg/Kg	10	08/13/18	EK	SW6010C
Cadmium	1.02	0.37	0.37	mg/Kg	1	08/13/18	EK	SW6010C
Cobalt	8.29	0.37	0.37	mg/Kg	1	08/13/18	EK	SW6010C
Chromium	22.9	0.37	0.37	mg/Kg	1	08/13/18	EK	SW6010C
Copper	61.3	0.7	0.37	mg/kg	1	08/13/18	EK	SW6010C
Iron	17300	37	37	mg/Kg	10	08/13/18	EK	SW6010C
Mercury	0.87	0.03	0.02	mg/Kg	1	08/13/18	RS	SW7471B
Potassium	1150	7	2.9	mg/Kg	1	08/13/18	EK	SW6010C
Magnesium	10500	37	37	mg/Kg	10	08/13/18	EK	SW6010C
Manganese	319	3.7	3.7	mg/Kg	10	08/13/18	EK	SW6010C
Sodium	383	7	3.2	mg/Kg	1	08/13/18	EK	SW6010C
Nickel	18.1	0.37	0.37	mg/Kg	1	08/13/18	EK	SW6010C
Lead	817	7.4	3.7	mg/Kg	10	08/13/18	EK	SW6010C
Antimony	ND	3.7	3.7	mg/Kg	1	08/13/18	EK	SW6010C
Selenium	ND	1.5	1.3	mg/Kg	1	08/13/18	EK	SW6010C
Thallium	ND	1.5	1.5	mg/Kg	1	08/13/18	EK	SW6010C
Vanadium	22.6	0.37	0.37	mg/Kg	1	08/13/18	EK	SW6010C
Zinc	490	7.4	3.7	mg/Kg	10	08/13/18	EK	SW6010C
Percent Solid	91			%		08/10/18	Q	SW846-%Solid
Mercury Digestion	Completed					08/13/18	I/I	SW7471B
Total Metals Digest	Completed					08/10/18	T/AG/BF	SW3050B

Project ID: 1013 ATLANTIC AVE., BROOKLYN

Client ID: SB5 (0-2)

Phoenix I.D.: CB09341

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

Comments:

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.

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Phyllis Shiller, Laboratory Director

August 17, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	TB	08/09/18	10:30
Location Code:	EBC	Received by:	LB	08/10/18	17:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB09334
Phoenix ID: CB09342

Project ID: 1013 ATLANTIC AVE., BROOKLYN
Client ID: SB8 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.36	0.36	mg/Kg	1	08/13/18	EK	SW6010C
Aluminum	8660	36	7.2	mg/Kg	10	08/13/18	EK	SW6010C
Arsenic	2.76	0.72	0.72	mg/Kg	1	08/13/18	EK	SW6010C
Barium	76.8	0.7	0.36	mg/Kg	1	08/13/18	EK	SW6010C
Beryllium	0.44	0.29	0.14	mg/Kg	1	08/13/18	EK	SW6010C
Calcium	8010	3.6	3.3	mg/Kg	1	08/13/18	EK	SW6010C
Cadmium	0.51	0.36	0.36	mg/Kg	1	08/13/18	EK	SW6010C
Cobalt	7.41	0.36	0.36	mg/Kg	1	08/13/18	EK	SW6010C
Chromium	20.1	0.36	0.36	mg/Kg	1	08/13/18	EK	SW6010C
Copper	31.5	0.7	0.36	mg/kg	1	08/13/18	EK	SW6010C
Iron	19100	36	36	mg/Kg	10	08/13/18	EK	SW6010C
Mercury	0.11	0.03	0.02	mg/Kg	1	08/13/18	RS	SW7471B
Potassium	1300	7	2.8	mg/Kg	1	08/13/18	EK	SW6010C
Magnesium	3520	3.6	3.6	mg/Kg	1	08/13/18	EK	SW6010C
Manganese	627	3.6	3.6	mg/Kg	10	08/13/18	EK	SW6010C
Sodium	415	7	3.1	mg/Kg	1	08/13/18	EK	SW6010C
Nickel	17.9	0.36	0.36	mg/Kg	1	08/13/18	EK	SW6010C
Lead	93.1	0.7	0.36	mg/Kg	1	08/13/18	EK	SW6010C
Antimony	ND	3.6	3.6	mg/Kg	1	08/13/18	EK	SW6010C
Selenium	ND	1.4	1.2	mg/Kg	1	08/13/18	EK	SW6010C
Thallium	ND	1.4	1.4	mg/Kg	1	08/13/18	EK	SW6010C
Vanadium	29.0	0.36	0.36	mg/Kg	1	08/13/18	EK	SW6010C
Zinc	89.8	0.7	0.36	mg/Kg	1	08/13/18	EK	SW6010C
Percent Solid	92			%		08/10/18	Q	SW846-%Solid
Mercury Digestion	Completed					08/13/18	I/I	SW7471B
Total Metals Digest	Completed					08/10/18	T/AG/BF	SW3050B

Project ID: 1013 ATLANTIC AVE., BROOKLYN

Client ID: SB8 (0-2)

Phoenix I.D.: CB09342

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

Comments:

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

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Phyllis Shiller, Laboratory Director

August 17, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Friday, August 17, 2018

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

State: NY

Sample Criteria Exceedances Report

GCB09334 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB09334	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2600	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2000	270	1700	1700	ug/Kg
CB09334	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2600	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	360	190	330	330	ug/Kg
CB09334	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2600	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1500	190	1000	1000	ug/Kg
CB09334	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1500	270	500	500	ug/Kg
CB09334	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2000	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2600	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1700	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1500	270	500	500	ug/Kg
CB09334	$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	360	190	330	330	ug/Kg
CB09334	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2600	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1500	190	1000	1000	ug/Kg
CB09334	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	270	500	500	ug/Kg
CB09334	$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1700	270	800	800	ug/Kg
CB09334	$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	360	190	330	330	ug/Kg
CB09334	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	190	1000	1000	ug/Kg
CB09334	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	270	1000	1000	ug/Kg
CB09334	$8270SMRDP	Dibenzofuran	NY / 375-6.8 Volatiles / Unrestricted Use Soil	730	270	330	330	ug/Kg
CB09334	$DIOX_SMR	1,4-dioxane	NY / 375-6.8 Volatiles / Ground Water Protection	ND	2200	100	100	ug/kg
CB09334	$DIOX_SMR	1,4-dioxane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	2200	100	100	ug/kg
CB09339	$8260MADPR	Naphthalene	NY / 375-6.8 Semivolatiles / Ground Water Protection	21000	3900	12000	12000	ug/Kg
CB09339	$8260MADPR	Naphthalene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	21000	3900	12000	12000	ug/Kg
CB09339	$8260MADPR	Benzene	NY / 375-6.8 Volatiles / Ground Water Protection	1200	780	60	60	ug/Kg
CB09339	$8260MADPR	Ethylbenzene	NY / 375-6.8 Volatiles / Ground Water Protection	86000	1000	1000	1000	ug/Kg
CB09339	$8260MADPR	1,2,4-Trimethylbenzene	NY / 375-6.8 Volatiles / Ground Water Protection	180000	3600	3600	3600	ug/Kg
CB09339	$8260MADPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Ground Water Protection	ND	39	20	20	ug/Kg
CB09339	$8260MADPR	1,3,5-Trimethylbenzene	NY / 375-6.8 Volatiles / Ground Water Protection	52000	7800	8400	8400	ug/Kg
CB09339	$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	ND	390	50	50	ug/Kg
CB09339	$8260MADPR	Methylene chloride	NY / 375-6.8 Volatiles / Ground Water Protection	ND	390	50	50	ug/Kg
CB09339	$8260MADPR	n-Propylbenzene	NY / 375-6.8 Volatiles / Ground Water Protection	29000	3900	3900	3900	ug/Kg
CB09339	$8260MADPR	Toluene	NY / 375-6.8 Volatiles / Ground Water Protection	250000	780	700	700	ug/Kg
CB09339	$8260MADPR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Ground Water Protection	ND	160	120	120	ug/Kg
CB09339	$8260MADPR	Vinyl chloride	NY / 375-6.8 Volatiles / Ground Water Protection	ND	39	20	20	ug/Kg
CB09339	$8260MADPR	Toluene	NY / 375-6.8 Volatiles / Residential	250000	780	100000	100000	ug/Kg
CB09339	$8260MADPR	1,2,4-Trimethylbenzene	NY / 375-6.8 Volatiles / Residential	180000	3600	47000	47000	ug/Kg
CB09339	$8260MADPR	1,3,5-Trimethylbenzene	NY / 375-6.8 Volatiles / Residential	52000	7800	47000	47000	ug/Kg