Building 330D (Building 700) Elevator Pit Pre-Construction Sampling Report

at

iPark 84
Former IBM East Fishkill Facility
2070 State Route 52
Hopewell Junction, New York 12533
iPark0118.10

November 2019

Prepared for:

Ms. Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
New York State Department of
Environmental Conservation
625 Broadway
Albany, New York 12233-7013

WALDEN ENVIRONMENTAL ENGINEERING, PLLC

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Sent via email to jess.laclair@dec.ny.gov

November 19, 2019
iPARK0118.35

Ms. Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Re: iPark 84
Former IBM East Fishkill Facility
Building 700 (Former 330D) Elevator
Installation Pre-Construction Soil
Characterization Summary Report

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) is submitting this Elevator Installation Pre-Construction Soil Characterization Summary Report on behalf of iPark East Fishkill LLC (iPark), the owner of Building 700 (Former 330D) at the iPark 84 Former IBM East Fishkill Facility located in Hopewell Junction, New York.

This letter report summarizes the pre-construction soil sampling and air monitoring activities completed in October 2019 to characterize soils prior to the installation of an elevator at the northwest entrance to Building 700. Once installed, the elevator will provide access to the second floor of the building. Elevator construction will involve the removal of a section of the concrete slab, and disturbance of subsurface soil beneath the slab in order to install the elevator pit. The pre-construction sampling was completed in accordance with the Community Air Monitoring Plan (CAMP) and Health and Safety Plan (HASP) included in the *Building 700 (Former 330D) Elevator Installation Soil Characterization* (Work Plan) approved by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) in a letter dated September 26, 2019.

Pre-Construction Activities

Air Sampling and Building Evaluation

Prior to the installation of the soil probes, background indoor air quality sampling was performed within the Crepini space (the occupied space closest to the work area) and throughout other accessible portions of the first and second floor spaces within Building 700. Other than the recent occupancy by Crepini, the occupancy of the building has remained the same since April 2019, when previous background readings were collected during the Crepini fit up. The Crepini HVAC system was operating during the intrusive pre-construction sampling activities in the elevator area. The doors were shut in the hallway to isolate the work space. The building area where the elevator will be installed was open to outdoor air. This background sampling and building evaluation were used to determine the locations of the two (2) CAMP stations for the pre-construction sampling activities discussed below. The site map is presented on **Figure 1**. The locations of stations CAMP-1 and CAMP-2 are presented in **Figure 2.**

Soil Sampling

On October 29, 2019, pre-construction soil sampling was conducted at two (2) locations (B-1 and B-2 as shown on Figure 2) within the vicinity of the planned elevator pit in order to evaluate contaminant levels in the soil and to characterize exposure risks as well as to determine if the soil was suitable for on-site reuse. Site photographs taken during the work are presented in **Appendix A**.

Prior to breaching the concrete slab, a Ground Penetrating Radar (GPR) survey was performed by Delta Geophysics to clear both of the sampling locations, as well as the area where the elevator is to be installed of any underground utilities or structures. No anomalies were detected. All sub-slab utilities encountered in the vicinity of the work area were marked out with spray paint.

The pre-construction investigation samples were collected from the general locations shown in the NYSDEC-approved Work Plan (dated September 2019). Refer to **Figure 2** for the sampling locations. A 6610DT Geoprobe utilizing direct push drilling technology was utilized to install the soil probes. The Geoprobe featured a macrocore that was utilized to retrieve soils to ten (10) feet below the slab. Soil descriptions, photoionization detector (PID) measurements and observations were logged in a project dedicated field book by Walden field staff.

Two (2) soil samples were collected from each location. The soil intervals exhibiting the greatest visual or olfactory evidence of contamination (odors/staining) and/or the highest PID screening concentration were collected for analysis. Where screening and observations showed no evidence

of contamination, a sample was collected from the 0-2 ft interval below the slab. Additionally, a sample was collected from the 7-10 ft interval from both locations in order to characterize the soils that will remain in place following the elevator installation. Excess soils removed from each core location were placed back in their respective boreholes. No evidence of bedrock or the groundwater table was encountered during the soil sampling.

Soil samples were labeled with the Site name, Walden job number, sample location and identification, date, time, sampler's initials, and the parameter(s) for analysis. The samples were transported to the laboratory in such a manner as to avoid container damage during transportation and to minimize the possibility of cross-contamination. The samples were delivered via courier under the appropriate Chain-of-Custody protocol.

Sample Analysis and Reporting

The soil samples were submitted to Phoenix Environmental Laboratories, Inc. of Manchester, CT, a NYSDOH ELAP certified laboratory, for analysis. The sub-slab soil samples were analyzed for volatile organic compounds (VOCs) via EPA Method 8260, semi-volatile organic compounds (SVOCs) via EPA Method 8270, and metals via EPA Method 6010C.

Sub-Slab Soil Sampling Results

Walden reviewed the pre-construction investigation results and compared them to standards and guidance established by NYSDEC and NYSDOH. **Tables 1, 2 and 3** summarize the sub-slab soil sample VOC, SVOC and metals results, respectively. Copies of the laboratory analytical reports are attached as **Appendix B**.

The laboratory analytical data for the sub-slab soil samples were compared to the NYCRR Part 375-6.8(b) Soil Cleanup Objectives (SCOs) for various categories ranging from unrestricted to residential and commercial use, as shown in Tables 3 through 5.

- Fluorene and pyrene were the only SVOCs detected in the soil samples. The concentrations reported for these SVOCs were below the respective unrestricted use SCOs.
- All of the metals were detected at concentrations below the respective unrestricted use SCOs with the exception of the manganese concentration in sample B-1 (0'-2'), which was less than the commercial use SCO.
- Acetone, PCE and tetrahydrofuran were the only VOCs detected in the samples. The acetone and PCE concentrations were below the respective unrestricted use SCOs; no SCOs have been established for tetrahydrofuran.

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CAMP Air Monitoring

CAMP air monitoring was performed during the sampling activities on October 29th. VOC concentrations were monitored utilizing Mini Rae 3000 Photo-Ionization Detectors (PIDs). DustTrak meters were used to measure particulate concentrations. The instruments were calibrated at the beginning of the work day according to manufacturer's instructions. Each CAMP air monitoring station contained a PID and a dust meter connected to a data logger that continuously recorded air within the breathing zone throughout the work day, from before the work started until after the last workers left the area. In addition, Walden recorded the VOC and dust concentrations at each monitoring station every fifteen minutes during the work day. Walden utilized a third PID to monitor breathing zone VOC concentrations in the immediate vicinity of the work activities to ensure the workers were protected in accordance with the HASP. A multi-gas meter was also used to continually measure the concentrations of hydrogen sulfide, oxygen, lower explosive limit, carbon monoxide and chlorine in the indoor air within the work area. The CAMP daily report is included in **Appendix C**. The PID and DustTrak Meter data files are included in **Appendix D** (for CAMP-1) and **Appendix E** (for CAMP-2).

All recorded VOC concentrations were below the five (5) parts per million (ppm) CAMP action level. No elevated dust concentrations were detected during the soil sampling activities.

Conclusions

The CAMP monitoring results indicated that no elevated VOC or dust concentrations occurred at CAMP-1 and CAMP-2, and no indoor air impacts associated with VOCs or dust were observed. The pre-construction sampling results indicate that the soil beneath the elevator pit meets the unrestricted use SCOs.

Based on the above results from the pre-construction soil investigation, please confirm that excess soils from the planned Building 700 elevator pit installation work are suitable for future on-site use. Note that additional soil sampling and CAMP will be conducted during the elevator installation work in accordance with the NYSDEC-approved Work Plan. Please call me at (516) 624-7200 if you have any questions or need any additional information.

Very truly yours,
Walden Environmental Engineering, PLLC

Nora M. Brew, P.E.
Senior Project Manager

cc: J. Kenney, NYSDOH
C. Monheit, iPark East Fishkill LLC
M. Buckley, iPark East Fishkill LLC
D. Chartrand, IBM

Figure 1 – Site Plan
Figure 2 – CAMP Monitoring and Soil Sampling Locations

Table 1 – Summary of Soil Sampling Results-Volatile Organic Compounds (VOCs)
Table 2 – Summary of Soil Sampling Results-Semi-Volatile Organic Compounds (SVOCs)
Table 3 – Summary of Soil Sampling Results-Metals

Appendix A – Photographs
Appendix B – Laboratory Analytical Report
Appendix C – Daily Report
Appendix D – CAMP-1 Monitoring Data
Appendix E – CAMP-2 Monitoring Data

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FIGURE 1

SITE PLAN

N

SITE PLAN

SCALE: 1" = 60'-0"

0 30 60 120 180

SCALE: 1"=60'

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
16 SPRING STREET
OYSTER BAY, NEW YORK 11771
P: (516) 624-7200 F: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

Walden Environmental Engineering

REVISION		
No.	DATE	COMMENTS

FOR: BUILDING 700 (FORMER 330D)
iPark 84 Campus
2070 State Route 52
Hopewell Junction, NY 12533

DRAWING TITLE: SITE PLAN
BUILDING 330D
ELEVATOR PIT PRE CONSTRUCTION SAMPLING

FIGURE NO: 1

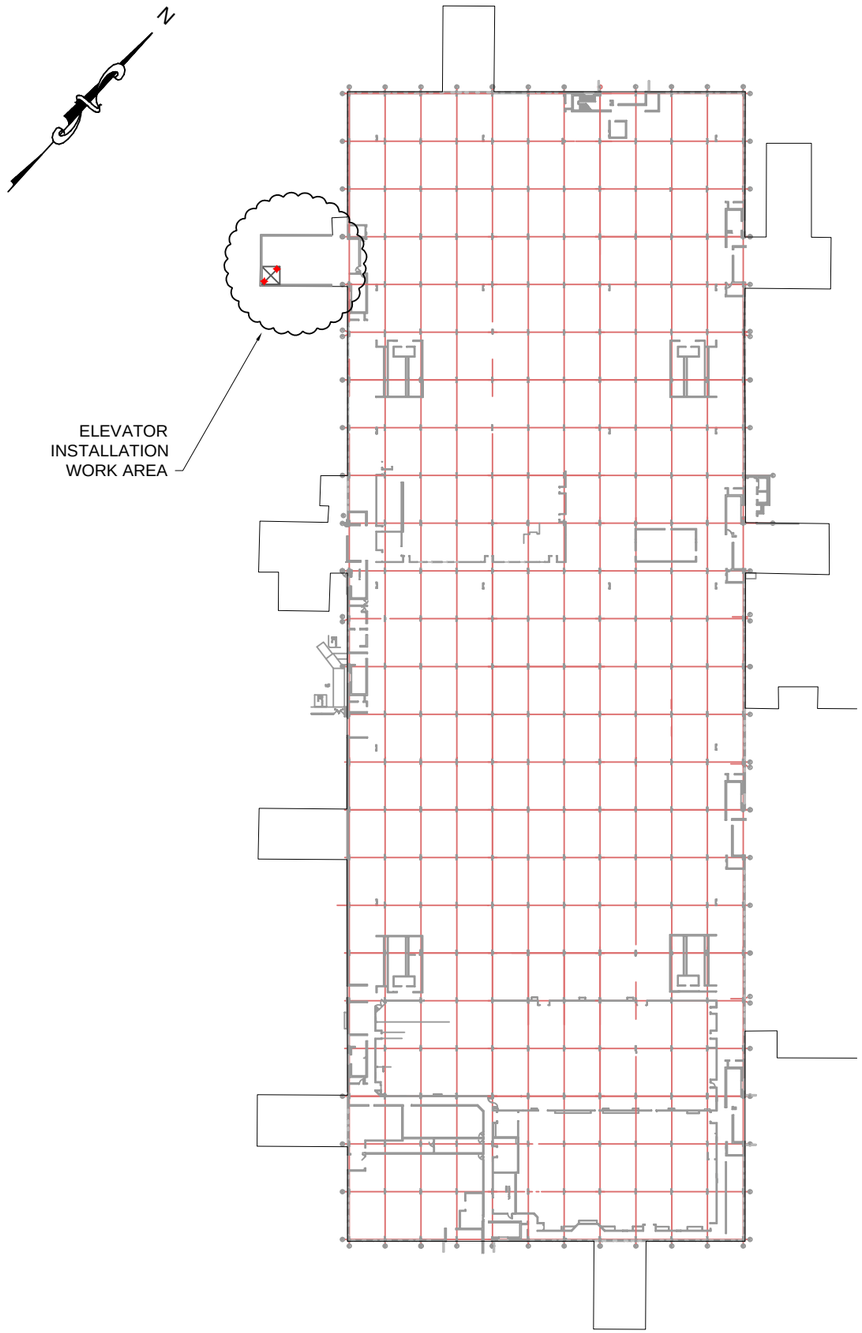
ISSUED

REVISION N 0

DESIGNED BY: NMB / GW
DRAWN BY: EJK
APPROVED BY: JMH
SCALE: AS NOTED
JOB NO: IPARK118.35
DATE: 11/12/19
11x17
SHEET NO: 1 OF 2
CAD FILE NAME: Z:\iPark\0118\iPark0118.35 - Bldg 330D Elevator\Pre-Construction Sampling Report\B330D-Pre Construction Sampling Report.dwg

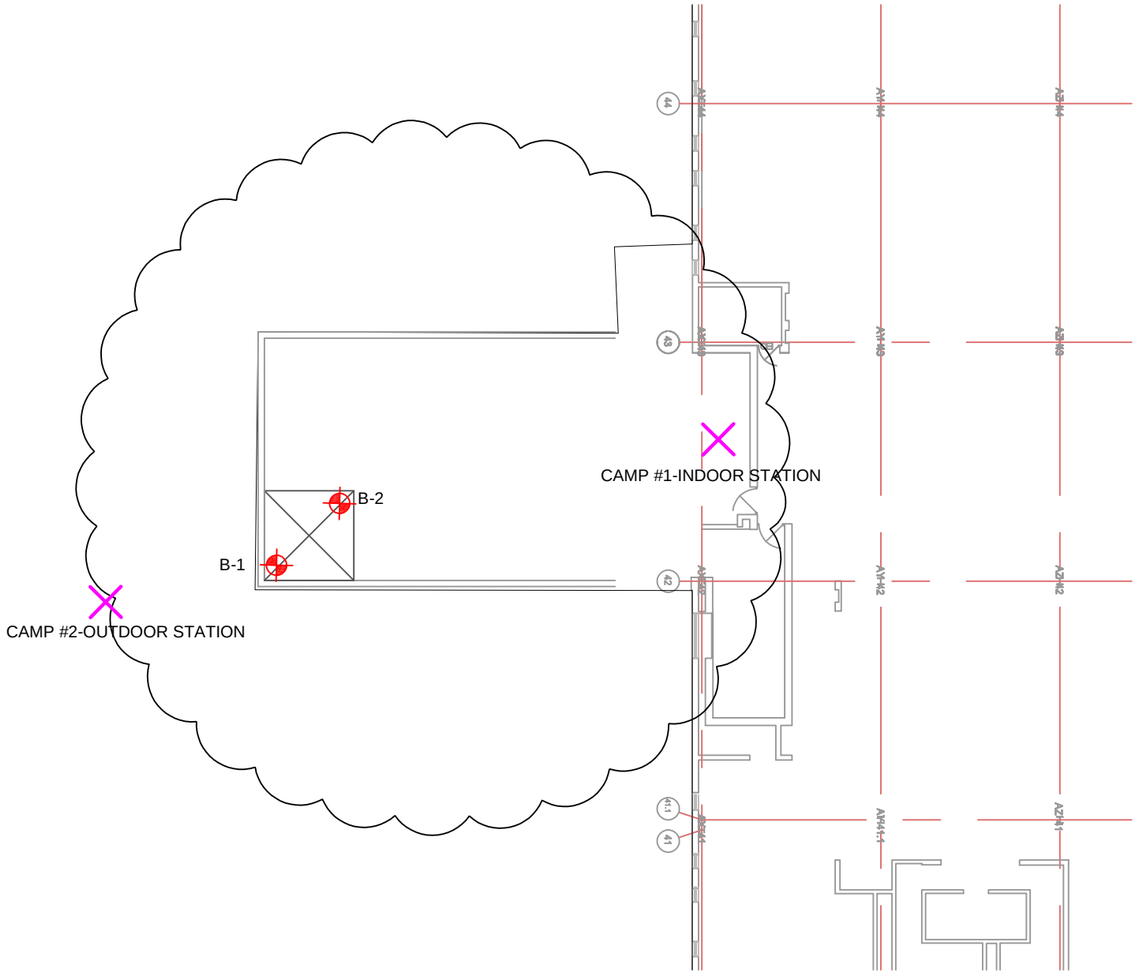
FIGURE 2

CAMP MONITORING AND SOIL SAMPLING LOCATIONS



BLDG 700 (FORMERLY 330D) ELEVATOR INSTALLATION WORK PLAN

SCALE: 1" = 100'-0"



ELEVATOR INSTALLATION - SAMPLING LOCATIONS

SCALE: 1" = 20'-0"

0 10 20 40 60

SCALE: 1"=20'

0 50 100 200 300

SCALE: 1"=100'

LEGEND

- PROPOSED ELEVATOR INSTALLATION LOCATION
- SOIL BORING LOCATION
- COMMUNITY AIR MONITORING PROGRAM (CAMP) STATION

Walden Environmental Engineering

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
16 SPRING STREET
OYSTER BAY, NEW YORK 11771
P: (516) 624-7200 F: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

REVISION		
No.	DATE	COMMENTS

FOR: BUILDING 700 (FORMER 330D)
iPark 84 Campus
2070 State Route 52
Hopewell Junction, NY 12533

DRAWING TITLE: WORK AREA LOCATION
BUILDING 330D
SOIL SAMPLING AND CAMP STATION LOCATIONS

FIGURE NO: 2

ISSUED

REVISION N 0

DESIGNED BY: NMB / GW | DRAWN BY: EJK | JOB NO: IPARK118.35 | DATE: 11/12/19 | 11x17 | SHEET NO: 2 OF 2

APPROVED BY: JMH | SCALE: AS NOTED | CAD FILE NAME: Z:\iPark\0118\iPark\0118.35 - Bldg 330D Elevator\Pre-Construction Sampling Report\B330D-Pre Construction Sampling Report.dwg

TABLE 1

SUMMARY OF SOIL SAMPLING RESULTS - VOLATILE ORGANIC COMPOUNDS (VOCs)

iPARK 84 CAMPUS
BUILDING 700 (FORMERLY 330D)
2070 NY ROUTE 52
HOPEWELL JUNCTION, NY

TABLE 1
SUMMARY OF SOIL SAMPLING REULTS-VOLATILE ORGANIC COMPOUNDS (VOCs)

					Collection Date	10/29/2019		10/29/2019		10/29/2019		10/29/2019	
					Sample ID	B-1 (0'-2')		B-1 (7'-10')		B-2 (0'-2')		B2 (7'-10')	
					Matrix	Soil		Soil		Soil		Soil	
		NYCRR Part 375 SCOs											
	CAS	**Commercial Use Soil Cleanup Objective**	**Residential Use Soil Cleanup Objective**	**Unrestricted Use Soil Cleanup Objective**	**Result ug/kg**	**Q**	**Result ug/kg**	**Q**	**Result ug/kg**	**Q**	**Result ug/kg**	**Q**
Volatiles By SW8260C													
1,1,1,2-Tetrachloroethane	630-20-6	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,1,1-Trichloroethane	71-55-6	500,000	100,000	680	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,1,2,2-Tetrachloroethane	79-34-5	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,1,2-Trichloroethane	79-00-5	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,1-Dichloroethane	75-34-3	240,000	19,000	270	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,1-Dichloroethene	75-35-4	500,000	100,000	330	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,1-Dichloropropene	563-58-6	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,2,3-Trichloropropane	96-18-4	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,2,4-Trichlorobenzene	120-82-1	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,2,4-Trimethylbenzene	95-63-6	190,000	47,000	3,600	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,2-Dibromo-3-chloropropane	96-12-8	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,2-Dibromoethane	106-93-4	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,2-Dichlorobenzene	95-50-1	500,000	100,000	1,100	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,2-Dichloroethane	107-06-2	30,000	2,300	20	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,2-Dichloropropane	78-87-5	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,3,5-Trimethylbenzene	108-67-8	190,000	47,000	8,400	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,3-Dichlorobenzene	541-73-1	280,000	17,000	2,400	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,3-Dichloropropane	142-28-9	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
1,4-Dichlorobenzene	106-46-7	130,000	9,800	1,800	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
2,2-Dichloropropane	594-20-7	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
2-Chlorotoluene	95-49-8	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
2-Hexanone	591-78-6	NA	NA	NA	< 18	U	< 23	U	< 16	U	< 13	U
2-Isopropyltoluene	527-84-4	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
4-Chlorotoluene	106-43-4	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
4-Methyl-2-pentanone	108-10-1	NA	NA	NA	< 18	U	< 23	U	< 16	U	< 13	U
Acetone	67-64-1	500,000	100,000	50	**4.6**	JS	**4.9**	JS	**3.6**	JS	< 13	U
Acrylonitrile	107-13-1	NA	NA	NA	< 7.4	U	< 9.0	U	< 6.4	U	< 5.0	U
Benzene	71-43-2	44,000	2,900	60	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Bromobenzene	108-86-1	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Bromochloromethane	74-97-5	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Bromodichloromethane	75-27-4	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Bromoform	75-25-2	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Bromomethane	74-83-9	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Carbon Disulfide	75-15-0	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Carbon tetrachloride	56-23-5	22,000	1,400	760	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Chlorobenzene	108-90-7	500,000	100,000	1,100	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Chloroethane	75-00-3	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Chloroform	67-66-3	350,000	10,000	370	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Chloromethane	74-87-3	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
cis-1,2-Dichloroethene	156-59-2	500,000	59,000	250	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
cis-1,3-Dichloropropene	10061-01-5	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Dibromochloromethane	124-48-1	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Dibromomethane	74-95-3	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Dichlorodifluoromethane	75-71-8	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Ethylbenzene	100-41-4	390,000	30,000	1,000	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Hexachlorobutadiene	87-68-3	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Isopropylbenzene	98-82-8	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
m&p-Xylene	179601-23-1	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Methyl Ethyl Ketone	78-93-3	500,000	100,000	120	< 18	U	< 23	U	< 16	U	< 13	U
Methyl t-butyl ether (MTBE)	1634-04-4	500,000	62,000	930	< 7.4	U	< 9.0	U	< 6.4	U	< 5.0	U
Methylene chloride	75-09-2	500,000	51,000	50	< 7.4	U	< 9.0	U	< 6.4	U	< 5.0	U
Naphthalene	91-20-3	500,000	100,000	12,000	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
n-Butylbenzene	104-51-8	500,000	100,000	12,000	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
n-Propylbenzene	103-65-1	500,000	100,000	3,900	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
o-Xylene	95-47-6	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
p-Isopropyltoluene	99-87-6	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
sec-Butylbenzene	135-98-8	500,000	100,000	11,000	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Styrene	100-42-5	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
tert-Butylbenzene	98-06-6	500,000	100,000	5,900	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Tetrachloroethene	127-18-4	150,000	5,500	1,300	**0.75**	J	**2.4**	J	< 3.2	U	**0.73**	J
Tetrahydrofuran (THF)	109-99-9	NA	NA	NA	**13**		**15**		**12**		**6.3**	
Toluene	108-88-3	500,000	100,000	700	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Total Xylenes	1330-20-7	500,000	100,000	260	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
trans-1,2-Dichloroethene	156-60-5	500,000	100,000	190	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
trans-1,3-Dichloropropene	10061-02-6	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
trans-1,4-dichloro-2-butene	110-57-6	NA	NA	NA	< 7.4	U	< 9.0	U	< 6.4	U	< 5.0	U
Trichloroethene	79-01-6	200,000	10,000	470	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Trichlorofluoromethane	75-69-4	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Trichlorotrifluoroethane	76-13-1	NA	NA	NA	< 3.7	U	< 4.5	U	< 3.2	U	< 2.5	U
Vinyl chloride	75-01-4	13,000	210	20	<3.7	U	<4.5	U	<3.2	U	<2.5	U

Notes:

Concentrations are provided in micrograms per kilogram (ug/kg).

U - The compound was anlayzed for but not detected at or above the Method Detection Limit (MDL). The number immediately preceding the "U" represents the Practical Quantitation Level (PQL) corrected for percent solids, weight and/or volume calculations, and dilution factors.

Bold results indicate those detected above MDLs.

J: The value is estimated. This flag is used a) on form 1 when the compound is reported above the MDL, but below the PQL, and b) on the Tentatively Identified Compounds (TIC) form for all compounds identified.

S: This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

NA-No applicable standard

TABLE 2

SUMMARY OF SOIL SAMPLING RESULTS - SEMI VOLATILE ORGANIC COMPOUNDS (SVOCs)

iPARK 84 CAMPUS
BUILDING 700 (FORMERLY 330D)
2070 NY ROUTE 52
HOPEWELL JUNCTION, NY

TABLE 2
SUMMARY OF SOIL SAMPLING REULTS- SEMI VOLATILE ORGANIC COMPOUNDS (SVOCs)

					Collection Date		10/29/2019		10/29/2019		10/29/2019		10/29/2019	
					Sample ID		B-1 (0'-2')		B-1 (7'-10')		B-2 (0'-2')		B2 (7'-10')	
					Matrix		Soil		Soil		Soil		Soil	
		NYCRR Part 375 SCOs												
	CAS	Commercial Use Soil Cleanup Objective	Residential Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result ug/kg	Q	Result ug/kg	Q	Result ug/kg	Q	Result ug/kg	Q
Semivolatiles By SW8270D														
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
1,2,4-Trichlorobenzene	120-82-1	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
1,2-Dichlorobenzene	95-50-1	500,000	100,000	1,100	< 250	U	< 260	U	< 240	U	< 260	U
1,2-Diphenylhydrazine	122-66-7	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
1,3-Dichlorobenzene	541-73-1	280,000	17,000	2,400	< 250	U	< 260	U	< 240	U	< 260	U
1,4-Dichlorobenzene	106-46-7	130,000	9,800	1,800	< 250	U	< 260	U	< 240	U	< 260	U
2,4,5-Trichlorophenol	95-95-4	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
2,4,6-Trichlorophenol	88-06-2	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
2,4-Dichlorophenol	120-83-2	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
2,4-Dimethylphenol	105-67-9	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
2,4-Dinitrophenol	51-28-5	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
2,4-Dinitrotoluene	121-14-2	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
2,6-Dinitrotoluene	606-20-2	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
2-Chloronaphthalene	91-58-7	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
2-Chlorophenol	95-57-8	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
2-Methylnaphthalene	91-57-6	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
2-Methylphenol (o-cresol)	95-48-7	500,000	100,000	330	< 250	U	< 260	U	< 240	U	< 260	U
2-Nitroaniline	88-74-4	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
2-Nitrophenol	88-75-5	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
3&4-Methylphenol (m&p-cres	n/a	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
3,3'-Dichlorobenzidine	91-94-1	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
3-Nitroaniline	99-09-2	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
4,6-Dinitro-2-methylphenol	534-52-1	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
4-Bromophenyl phenyl ether	101-55-3	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
4-Chloro-3-methylphenol	59-50-7	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
4-Chloroaniline	106-47-8	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
4-Nitroaniline	100-01-6	NA	NA	NA	< 560	U	< 590	U	< 550	U	< 600	U
4-Nitrophenol	100-02-7	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Acenaphthene	83-32-9	500,000	100,000	20,000	< 250	U	< 260	U	< 240	U	< 260	U
Acenaphthylene	208-96-8	500,000	100,000	100,000	< 250	U	< 260	U	< 240	U	< 260	U
Acetophenone	98-86-2	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Aniline	62-53-3	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
Anthracene	120-12-7	500,000	100,000	100,000	< 250	U	< 260	U	< 240	U	< 260	U
Benz(a)anthracene	56-55-3	5,600	1,000	1,000	< 250	U	< 260	U	< 240	U	< 260	U
Benzidine	92-87-5	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Benzo(a)pyrene	50-32-8	1,000	1,000	1,000	< 250	U	< 260	U	< 240	U	< 260	U
Benzo(b)fluoranthene	205-99-2	5,600	1,000	1,000	< 250	U	< 260	U	< 240	U	< 260	U
Benzo(ghi)perylene	191-24-2	500,000	100,000	100,000	< 250	U	< 260	U	< 240	U	< 260	U
Benzo(k)fluoranthene	207-08-9	56,000	1,000	800	< 250	U	< 260	U	< 240	U	< 260	U
Benzoic acid	65-85-0	NA	NA	NA	< 700	U	< 730	U	< 680	U	< 750	U
Benzyl butyl phthalate	85-68-7	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Bis(2-chloroethoxy)methane	111-91-1	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Bis(2-chloroethyl)ether	111-44-4	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
Bis(2-chloroisopropyl)ether	39638-32-9	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Bis(2-ethylhexyl)phthalate	117-81-7	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Carbazole	86-74-8	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
Chrysene	218-01-9	56,000	1,000	1,000	< 250	U	< 260	U	< 240	U	< 260	U
Dibenz(a,h)anthracene	53-70-3	560	330	330	< 250	U	< 260	U	< 240	U	< 260	U
Dibenzofuran	132-64-9	350,000	14,000	7,000	< 250	U	< 260	U	< 240	U	< 260	U
Diethyl phthalate	84-66-2	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Dimethylphthalate	131-11-3	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Di-n-butylphthalate	84-74-2	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
Di-n-octylphthalate	117-84-0	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Fluoranthene	206-44-0	500,000	100,000	100,000	**150**	J	< 260	U	< 240	U	< 260	U
Fluorene	86-73-7	500,000	100,000	30,000	< 250	U	< 260	U	< 240	U	< 260	U
Hexachlorobenzene	118-74-1	6,000	330	330	< 250	U	< 260	U	< 240	U	< 260	U
Hexachlorobutadiene	87-68-3	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Hexachlorocyclopentadiene	77-47-4	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Hexachloroethane	67-72-1	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Indeno(1,2,3-cd)pyrene	193-39-5	5,600	500	500	< 250	U	< 260	U	< 240	U	< 260	U
Isophorone	78-59-1	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
Naphthalene	91-20-3	500,000	100,000	12,000	< 250	U	< 260	U	< 240	U	< 260	U
Nitrobenzene	98-95-3	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
N-Nitrosodimethylamine	62-75-9	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
N-Nitrosodi-n-propylamine	621-64-7	NA	NA	NA	< 250	U	< 260	U	< 240	U	< 260	U
N-Nitrosodiphenylamine	86-30-6	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
Pentachloronitrobenzene	82-68-8	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U
Pentachlorophenol	87-86-5	6,700	2,400	800	< 350	U	< 370	U	< 340	U	< 370	U
Phenanthrene	85-01-8	500,000	100,000	100,000	< 250	U	< 260	U	< 240	U	< 260	U
Phenol	108-95-2	500,000	100,000	330	< 250	U	< 260	U	< 240	U	< 260	U
Pyrene	129-00-0	500,000	100,000	100,000	**140**	J	< 260	U	< 240	U	< 260	U
Pyridine	110-86-1	NA	NA	NA	< 350	U	< 370	U	< 340	U	< 370	U

Notes:

Concentrations are provided in micrograms per kilogram (ug/kg).

U - The compound was anlayzed for but not detected at or above the Method Detection Limit (MDL). The number immediately preceding the "U" represents the Practical Quantitation Level (PQL) corrected for percent solids, weight and/or volume

Bold results indicate those detected above MDLs.

J: The value is estimated. This flag is used a) on form 1 when the compound is reported above the MDL, but below the PQL, and b) on the Tentatively Identified Compounds (TIC) form for all compounds identified.

NA-No applicable standard

TABLE 3

SUMMARY OF SOIL SAMPLING RESULTS - METALS

iPARK 84 CAMPUS
BUILDING 700 (FORMERLY 330D)
2070 NY ROUTE 52
HOPEWELL JUNCTION, NY

TABLE 3
SUMMARY OF SOIL SAMPLING REULTS-Metals

					Collection Date	10/29/2019		10/29/2019		10/29/2019		10/29/2019	
					Sample ID	B-1 (0'-2')		B-1 (7'-10')		B-2 (0'-2')		B2 (7'-10')	
					Matrix	Soil		Soil		Soil		Soil	
		NYCRR Part 375 SCOs											
	CAS	**Commercial Use Soil Cleanup Objective**	**Residential Use Soil Cleanup Objective**	**Unrestricted Use Soil Cleanup Objective**	**Result mg/kg**	**Q**	**Result mg/kg**	**Q**	**Result mg/kg**	**Q**	**Result mg/kg**	**Q**
Metals, Total													
Aluminum	7429-90-5	NA	NA	NA	**13,400**		**19,300**		**12,900**		**17,000**	
Antimony	7440-36-0	NA	NA	NA	< 3.2	U	< 3.5	U	< 3.6	U	< 3.9	U
Arsenic	7440-38-2	16	16	13	**5.7**		**7.31**		**4.67**		**7.44**	
Barium	7440-39-3	400	350	350	**90.6**		**70**		**39.2**		**72.2**	
Beryllium	7440-41-7	590	14	7.2	**0.46**		**0.71**		**0.34**		**0.59**	
Cadmium	7440-43-9	9.3	2.5	2.5	**0.8**		**0.78**		**0.68**		**0.68**	
Calcium	7440-70-2	NA	NA	NA	**16,900**		**903**		**12,000**		**7,430**	
Chromium	7440-47-3	1,500	36	30	**13.8**		**18.8**		**12.4**		**16.4**	
Cobalt	7440-48-4	NA	NA	NA	**9.28**		**14.6**		**11**		**12.5**	
Copper	7440-50-8	270	270	50	**30.1**		**37.9**		**30**		**31.6**	
Iron	7439-89-6	NA	NA	NA	**31,000**		**37,000**		**29,600**		**33,900**	
Lead	7439-92-1	1,000	400	63	**13.5**		**15.7**		**12.4**		**14.8**	
Magnesium	7439-95-4	NA	NA	NA	**12,300**		**7,540**		**7,950**		**7,720**	
Manganese	7439-96-5	10,000	2,000	1,600	**2,860**		**947**		**974**		**1,010**	
Mercury	7439-97-6	2.8	0.81	0.18	< 0.03	U	< 0.03	J	< 0.02	U	< 0.03	U
Nickel	7440-02-0	310	140	30	**23.3**		**29.3**		**23.8**		**25.4**	
Potassium	9/7/7440	NA	NA	NA	**1,260**		**2,040**		**1,000**		**1,670**	
Selenium	7782-49-2	1,500	36	3.9	< 1.3	U	< 1.4	U	< 1.4	U	< 1.6	U
Silver	7440-22-4	1,500	36	2	< 0.32	U	< 0.35	U	< 0.36	U	< 0.39	U
Sodium	7440-23-5	NA	NA	NA	**126**		**131**		**105**		**121**	
Thallium	7440-28-0	NA	NA	NA	< 2.9	U	< 3.2	U	< 3.2	U	< 3.5	U
Vanadium	7440-62-2	NA	NA	NA	**15.2**		**19.9**		**13.1**		**18.6**	
Zinc	7440-66-6	10,000	2,200	109	**69.1**		**81.1**		**68.1**		**68.5**	

Notes:

Concentrations are provided in milligrams per kilogram (mg/kg).

U - The compound was anlayzed for but not detected at or above the Method Detection Limit (MDL). The number immediately preceding the "U" represents the Practical Quantitation Level (PQL) corrected for percent solids, weight and/or volume calculations, and **Bold** results indicate those detected above MDLs.

J: The value is estimated. This flag is used a) on form 1 when the compound is reported above the MDL, but below the PQL, and b) on the Tentatively Identified Compounds (TIC) form for all compounds identified.

Highlighted results indicate those detected above Unrestricted Use Soil Cleanup Objectives.

NA-No applicable standard

APPENDIX A

PHOTOGRAPHS

iPark 84
2070 Route 52 Hopewell Junction, New York
Crepini Elevator Pre-Construction Sampling

Photograph 1
Indoor Air CAMP station #1.

Photograph 2
View of a macrocore recovered from B-1.

Photograph 3
Geoprobe 6610DT operating in the workspace.

Photograph 4
Completed slab restoration.

APPENDIX B

LABORATORY ANALYTICAL REPORT

PHOENIX
Environmental Laboratories, Inc.

Tuesday, November 12, 2019

Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Project ID: **IPARK 0118.35**
SDG ID: **GCE50381**
Sample ID#s: **CE50381 - CE50384**

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.

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

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

NY # 11301

SDG Comments

November 12, 2019

SDG I.D.: GCE50381

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

Version 2: Per client request ASP B was added on.

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

Sample Id Cross Reference

November 12, 2019

SDG I.D.: GCE50381

Project ID: IPARK 0118.35

Client Id	Lab Id	Matrix
B-1 (0-2)	CE50381	SOIL
B-1 (7-10)	CE50382	SOIL
B-2 (0-2)	CE50383	SOIL
B-2 (7-10)	CE50384	SOIL

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

November 12, 2019

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/29/19	9:20
Location Code:	WALDENE	Received by:	LB	10/29/19	16:56
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCE50381
Phoenix ID: CE50381

Project ID: IPARK 0118.35
Client ID: B-1 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Aluminum	13400	48	6.4	mg/Kg	10	10/30/19	PS	SW6010D
Antimony	ND	3.2	3.2	mg/Kg	1	10/30/19	CPP	SW6010D
Arsenic	5.70	0.64	0.64	mg/Kg	1	10/30/19	CPP	SW6010D
Barium	90.6	0.32	0.32	mg/Kg	1	10/30/19	CPP	SW6010D
Beryllium	0.46	0.26	0.13	mg/Kg	1	10/30/19	CPP	SW6010D
Calcium	16900	48	29	mg/Kg	10	10/30/19	PS	SW6010D
Cadmium	0.80	0.32	0.32	mg/Kg	1	10/30/19	CPP	SW6010D
Chromium	13.8	0.32	0.32	mg/Kg	1	10/30/19	CPP	SW6010D
Cobalt	9.28	0.32	0.32	mg/Kg	1	10/30/19	CPP	SW6010D
Copper	30.1	0.6	0.32	mg/kg	1	10/30/19	CPP	SW6010D
Iron	31000	48	32	mg/Kg	10	10/30/19	PS	SW6010D
Lead	13.5	0.32	0.32	mg/Kg	1	10/30/19	CPP	SW6010D
Magnesium	12300	48	32	mg/Kg	10	10/30/19	CPP	SW6010D
Manganese	2860	32	32	mg/Kg	100	10/30/19	CPP	SW6010D
Mercury	ND	0.03	0.02	mg/Kg	2	10/30/19	MGH	SW7471B
Nickel	23.3	0.32	0.32	mg/Kg	1	10/30/19	CPP	SW6010D
Potassium	1260	4.8	2.5	mg/Kg	1	10/30/19	CPP	SW6010D
Selenium	ND	1.3	1.1	mg/Kg	1	10/30/19	CPP	SW6010D
Silver	ND	0.32	0.32	mg/Kg	1	10/30/19	CPP	SW6010D
Sodium	126	4.8	2.7	mg/Kg	1	10/30/19	CPP	SW6010D
Thallium	ND	2.9	1.3	mg/Kg	1	10/30/19	CPP	SW6010D
Vanadium	15.2	0.32	0.32	mg/Kg	1	10/30/19	CPP	SW6010D
Zinc	69.1	0.6	0.32	mg/Kg	1	10/30/19	CPP	SW6010D
Percent Solid	92			%		10/29/19	VT	SW846-%Solid
Soil Extraction for SVOA	Completed					10/29/19	KK/UL	SW3545A
Mercury Digestion	Completed					10/30/19	Q/Q	SW7471B
Total Metals Digest	Completed					10/29/19	B/AG/BF	SW3050B

Project ID: IPARK 0118.35
Client ID: B-1 (0-2)

Phoenix I.D.: CE50381

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,1-Trichloroethane	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,2-Trichloroethane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloroethane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloroethene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloropropene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,3-Trichloropropane	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dibromoethane	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichlorobenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichloroethane	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichloropropane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3-Dichlorobenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3-Dichloropropane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
1,4-Dichlorobenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
2,2-Dichloropropane	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Chlorotoluene	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Hexanone	ND		18	3.7	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Isopropyltoluene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	1
4-Chlorotoluene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
4-Methyl-2-pentanone	ND		18	3.7	ug/Kg	1	10/30/19	JLI	SW8260C	
Acetone	4.6	JS	18	3.7	ug/Kg	1	10/30/19	JLI	SW8260C	
Acrylonitrile	ND		7.4	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Benzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromobenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromochloromethane	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromodichloromethane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromoform	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromomethane	ND		3.7	1.5	ug/Kg	1	10/30/19	JLI	SW8260C	
Carbon Disulfide	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Carbon tetrachloride	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Chlorobenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloroethane	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloroform	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloromethane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Dibromochloromethane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Dibromomethane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Dichlorodifluoromethane	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Ethylbenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Hexachlorobutadiene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Isopropylbenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	

Project ID: IPARK 0118.35
Client ID: B-1 (0-2)

Phoenix I.D.: CE50381

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Methyl Ethyl Ketone	ND		18	3.7	ug/Kg	1	10/30/19	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		7.4	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Methylene chloride	ND		7.4	3.7	ug/Kg	1	10/30/19	JLI	SW8260C	
Naphthalene	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
n-Butylbenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
n-Propylbenzene	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
o-Xylene	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
p-Isopropyltoluene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
sec-Butylbenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Styrene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
tert-Butylbenzene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Tetrachloroethene	0.75	J	3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Tetrahydrofuran (THF)	13		7.4	1.8	ug/Kg	1	10/30/19	JLI	SW8260C	1
Toluene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Total Xylenes	ND		3.7	3.7	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		7.4	1.8	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichloroethene	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichlorofluoromethane	ND		3.7	0.74	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichlorotrifluoroethane	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
Vinyl chloride	ND		3.7	0.37	ug/Kg	1	10/30/19	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	10/30/19	JLI	70 - 130 %	
% Bromofluorobenzene	95				%	1	10/30/19	JLI	70 - 130 %	
% Dibromofluoromethane	101				%	1	10/30/19	JLI	70 - 130 %	
% Toluene-d8	96				%	1	10/30/19	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		250	84	ug/Kg	1	10/30/19	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D	
1,2-Dichlorobenzene	ND		250	99	ug/Kg	1	10/30/19	WB	SW8270D	
1,2-Diphenylhydrazine	ND		350	140	ug/Kg	1	10/30/19	WB	SW8270D	
1,3-Dichlorobenzene	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D	
1,4-Dichlorobenzene	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D	
2,4,5-Trichlorophenol	ND		250	91	ug/Kg	1	10/30/19	WB	SW8270D	
2,4,6-Trichlorophenol	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dichlorophenol	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dimethylphenol	ND		250	87	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dinitrophenol	ND		350	180	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dinitrotoluene	ND		250	140	ug/Kg	1	10/30/19	WB	SW8270D	
2,6-Dinitrotoluene	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D	
2-Chloronaphthalene	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D	
2-Chlorophenol	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D	
2-Methylnaphthalene	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		250	140	ug/Kg	1	10/30/19	WB	SW8270D	
2-Nitroaniline	ND		350	140	ug/Kg	1	10/30/19	WB	SW8270D	
2-Nitrophenol	ND		250	140	ug/Kg	1	10/30/19	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		350	140	ug/Kg	1	10/30/19	WB	SW8270D	

Project ID: IPARK 0118.35
Client ID: B-1 (0-2)

Phoenix I.D.: CE50381

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND		250	170	ug/Kg	1	10/30/19	WB	SW8270D
3-Nitroaniline	ND		350	140	ug/Kg	1	10/30/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND		350	140	ug/Kg	1	10/30/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND		350	100	ug/Kg	1	10/30/19	WB	SW8270D
4-Chloro-3-methylphenol	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
4-Chloroaniline	ND		250	140	ug/Kg	1	10/30/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
4-Nitroaniline	ND		560	120	ug/Kg	1	10/30/19	WB	SW8270D
4-Nitrophenol	ND		250	70	ug/Kg	1	10/30/19	WB	SW8270D
Acenaphthene	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
Acenaphthylene	ND		250	98	ug/Kg	1	10/30/19	WB	SW8270D
Acetophenone	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
Aniline	ND		350	140	ug/Kg	1	10/30/19	WB	SW8270D
Anthracene	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
Benz(a)anthracene	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzidine	ND		250	140	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(a)pyrene	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(b)fluoranthene	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(ghi)perylene	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(k)fluoranthene	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzoic acid	ND		700	140	ug/Kg	1	10/30/19	WB	SW8270D
Benzyl butyl phthalate	ND		250	91	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND		250	97	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND		350	95	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND		250	98	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D
Carbazole	ND		350	140	ug/Kg	1	10/30/19	WB	SW8270D
Chrysene	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
Dibenz(a,h)anthracene	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
Dibenzofuran	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D
Diethyl phthalate	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
Dimethylphthalate	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
Di-n-butylphthalate	ND		350	140	ug/Kg	1	10/30/19	WB	SW8270D
Di-n-octylphthalate	ND		250	91	ug/Kg	1	10/30/19	WB	SW8270D
Fluoranthene	150	J	250	110	ug/Kg	1	10/30/19	WB	SW8270D
Fluorene	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorobenzene	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorobutadiene	ND		250	130	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
Hexachloroethane	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
Isophorone	ND		250	98	ug/Kg	1	10/30/19	WB	SW8270D
Naphthalene	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D
Nitrobenzene	ND		250	120	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodimethylamine	ND		350	99	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodiphenylamine	ND		350	130	ug/Kg	1	10/30/19	WB	SW8270D
Pentachloronitrobenzene	ND		350	110	ug/Kg	1	10/30/19	WB	SW8270D
Pentachlorophenol	ND		350	130	ug/Kg	1	10/30/19	WB	SW8270D

Project ID: IPARK 0118.35
Client ID: B-1 (0-2)

Phoenix I.D.: CE50381

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Phenanthrene	ND		250	100	ug/Kg	1	10/30/19	WB	SW8270D	
Phenol	ND		250	110	ug/Kg	1	10/30/19	WB	SW8270D	
Pyrene	140	J	250	120	ug/Kg	1	10/30/19	WB	SW8270D	
Pyridine	ND		350	86	ug/Kg	1	10/30/19	WB	SW8270D	
QA/QC Surrogates										
% 2,4,6-Tribromophenol	73				%	1	10/30/19	WB	30 - 130 %	
% 2-Fluorobiphenyl	62				%	1	10/30/19	WB	30 - 130 %	
% 2-Fluorophenol	54				%	1	10/30/19	WB	30 - 130 %	
% Nitrobenzene-d5	60				%	1	10/30/19	WB	30 - 130 %	
% Phenol-d5	65				%	1	10/30/19	WB	30 - 130 %	
% Terphenyl-d14	62				%	1	10/30/19	WB	30 - 130 %	
Field Extraction	Completed						10/29/19		SW5035A	1

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

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

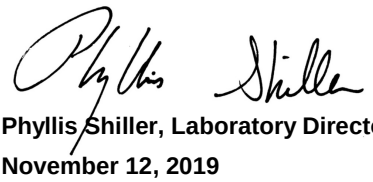
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director
November 12, 2019
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 12, 2019

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/29/19	9:10
Location Code:	WALDENE	Received by:	LB	10/29/19	16:56
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCE50381
Phoenix ID: CE50382

Project ID: IPARK 0118.35
Client ID: B-1 (7-10)

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Aluminum	19300		53	7.0	mg/Kg	10	10/30/19	CPP	SW6010D
Antimony	ND		3.5	3.5	mg/Kg	1	10/30/19	CPP	SW6010D
Arsenic	7.31		0.70	0.70	mg/Kg	1	10/30/19	CPP	SW6010D
Barium	70.0		0.35	0.35	mg/Kg	1	10/30/19	CPP	SW6010D
Beryllium	0.71		0.28	0.14	mg/Kg	1	10/30/19	CPP	SW6010D
Calcium	903		5.3	3.2	mg/Kg	1	10/30/19	CPP	SW6010D
Cadmium	0.78		0.35	0.35	mg/Kg	1	10/30/19	CPP	SW6010D
Chromium	18.8		0.35	0.35	mg/Kg	1	10/30/19	CPP	SW6010D
Cobalt	14.6		0.35	0.35	mg/Kg	1	10/30/19	CPP	SW6010D
Copper	37.9		0.7	0.35	mg/kg	1	10/30/19	CPP	SW6010D
Iron	37000		53	35	mg/Kg	10	10/30/19	CPP	SW6010D
Lead	15.7		0.35	0.35	mg/Kg	1	10/30/19	CPP	SW6010D
Magnesium	7540		53	35	mg/Kg	10	10/30/19	CPP	SW6010D
Manganese	947		3.5	3.5	mg/Kg	10	10/30/19	CPP	SW6010D
Mercury	0.03	J	0.03	0.02	mg/Kg	2	10/30/19	MGH	SW7471B
Nickel	29.3		0.35	0.35	mg/Kg	1	10/30/19	CPP	SW6010D
Potassium	2040		5.3	2.7	mg/Kg	1	10/30/19	CPP	SW6010D
Selenium	ND		1.4	1.2	mg/Kg	1	10/30/19	CPP	SW6010D
Silver	ND		0.35	0.35	mg/Kg	1	10/30/19	CPP	SW6010D
Sodium	131		5.3	3.0	mg/Kg	1	10/30/19	CPP	SW6010D
Thallium	ND		3.2	1.4	mg/Kg	1	10/30/19	CPP	SW6010D
Vanadium	19.9		0.35	0.35	mg/Kg	1	10/30/19	CPP	SW6010D
Zinc	81.1		0.7	0.35	mg/Kg	1	10/30/19	CPP	SW6010D
Percent Solid	90				%		10/29/19	VT	SW846-%Solid
Soil Extraction for SVOA	Completed						10/29/19	KK/UL	SW3545A
Mercury Digestion	Completed						10/30/19	Q/Q	SW7471B
Total Metals Digest	Completed						10/29/19	B/AG/BF	SW3050B

Ver 2

Project ID: IPARK 0118.35
Client ID: B-1 (7-10)

Phoenix I.D.: CE50382

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,1-Trichloroethane	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,2-Trichloroethane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloroethane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloroethene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloropropene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,3-Trichloropropane	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dibromoethane	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichlorobenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichloroethane	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichloropropane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3-Dichlorobenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3-Dichloropropane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
1,4-Dichlorobenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
2,2-Dichloropropane	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Chlorotoluene	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Hexanone	ND		23	4.5	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Isopropyltoluene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	1
4-Chlorotoluene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
4-Methyl-2-pentanone	ND		23	4.5	ug/Kg	1	10/30/19	JLI	SW8260C	
Acetone	4.9	JS	23	4.5	ug/Kg	1	10/30/19	JLI	SW8260C	
Acrylonitrile	ND		9.0	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Benzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromobenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromochloromethane	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromodichloromethane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromoform	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromomethane	ND		4.5	1.8	ug/Kg	1	10/30/19	JLI	SW8260C	
Carbon Disulfide	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Carbon tetrachloride	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Chlorobenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloroethane	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloroform	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloromethane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Dibromochloromethane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Dibromomethane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Dichlorodifluoromethane	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Ethylbenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Hexachlorobutadiene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Isopropylbenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	

Project ID: IPARK 0118.35
Client ID: B-1 (7-10)

Phoenix I.D.: CE50382

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Methyl Ethyl Ketone	ND		23	4.5	ug/Kg	1	10/30/19	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		9.0	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Methylene chloride	ND		9.0	4.5	ug/Kg	1	10/30/19	JLI	SW8260C	
Naphthalene	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
n-Butylbenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
n-Propylbenzene	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
o-Xylene	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
p-Isopropyltoluene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
sec-Butylbenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Styrene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
tert-Butylbenzene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Tetrachloroethene	2.4	J	4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Tetrahydrofuran (THF)	15		9.0	2.3	ug/Kg	1	10/30/19	JLI	SW8260C	1
Toluene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Total Xylenes	ND		4.5	4.5	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		9.0	2.3	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichloroethene	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichlorofluoromethane	ND		4.5	0.90	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichlorotrifluoroethane	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
Vinyl chloride	ND		4.5	0.45	ug/Kg	1	10/30/19	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	10/30/19	JLI	70 - 130 %	
% Bromofluorobenzene	94				%	1	10/30/19	JLI	70 - 130 %	
% Dibromofluoromethane	100				%	1	10/30/19	JLI	70 - 130 %	
% Toluene-d8	98				%	1	10/30/19	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		260	88	ug/Kg	1	10/30/19	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
1,2-Dichlorobenzene	ND		260	100	ug/Kg	1	10/30/19	WB	SW8270D	
1,2-Diphenylhydrazine	ND		370	150	ug/Kg	1	10/30/19	WB	SW8270D	
1,3-Dichlorobenzene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
1,4-Dichlorobenzene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
2,4,5-Trichlorophenol	ND		260	95	ug/Kg	1	10/30/19	WB	SW8270D	
2,4,6-Trichlorophenol	ND		260	120	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dichlorophenol	ND		260	130	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dimethylphenol	ND		260	91	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dinitrophenol	ND		370	180	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dinitrotoluene	ND		260	140	ug/Kg	1	10/30/19	WB	SW8270D	
2,6-Dinitrotoluene	ND		260	120	ug/Kg	1	10/30/19	WB	SW8270D	
2-Chloronaphthalene	ND		260	100	ug/Kg	1	10/30/19	WB	SW8270D	
2-Chlorophenol	ND		260	100	ug/Kg	1	10/30/19	WB	SW8270D	
2-Methylnaphthalene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		260	150	ug/Kg	1	10/30/19	WB	SW8270D	
2-Nitroaniline	ND		370	150	ug/Kg	1	10/30/19	WB	SW8270D	
2-Nitrophenol	ND		260	150	ug/Kg	1	10/30/19	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		370	140	ug/Kg	1	10/30/19	WB	SW8270D	

Project ID: IPARK 0118.35
Client ID: B-1 (7-10)

Phoenix I.D.: CE50382

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	260	170	ug/Kg	1	10/30/19	WB	SW8270D
3-Nitroaniline	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	110	ug/Kg	1	10/30/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
4-Chloroaniline	ND	260	150	ug/Kg	1	10/30/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
4-Nitroaniline	ND	590	120	ug/Kg	1	10/30/19	WB	SW8270D
4-Nitrophenol	ND	260	73	ug/Kg	1	10/30/19	WB	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	10/30/19	WB	SW8270D
Acetophenone	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Aniline	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
Anthracene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Benz(a)anthracene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzidine	ND	260	150	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(a)pyrene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(b)fluoranthene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(ghi)perylene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(k)fluoranthene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzoic acid	ND	730	150	ug/Kg	1	10/30/19	WB	SW8270D
Benzyl butyl phthalate	ND	260	94	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	99	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Carbazole	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
Chrysene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Di-n-butylphthalate	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
Di-n-octylphthalate	ND	260	94	ug/Kg	1	10/30/19	WB	SW8270D
Fluoranthene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Fluorene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorobenzene	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Hexachloroethane	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Isophorone	ND	260	100	ug/Kg	1	10/30/19	WB	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Nitrobenzene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodimethylamine	ND	370	100	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	140	ug/Kg	1	10/30/19	WB	SW8270D
Pentachloronitrobenzene	ND	370	110	ug/Kg	1	10/30/19	WB	SW8270D
Pentachlorophenol	ND	370	140	ug/Kg	1	10/30/19	WB	SW8270D

Project ID: IPARK 0118.35
Client ID: B-1 (7-10)

Phoenix I.D.: CE50382

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Phenanthrene	ND	260	100	ug/Kg	1	10/30/19	WB	SW8270D	
Phenol	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D	
Pyrene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D	
Pyridine	ND	370	90	ug/Kg	1	10/30/19	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	78			%	1	10/30/19	WB	30 - 130 %	
% 2-Fluorobiphenyl	55			%	1	10/30/19	WB	30 - 130 %	
% 2-Fluorophenol	58			%	1	10/30/19	WB	30 - 130 %	
% Nitrobenzene-d5	62			%	1	10/30/19	WB	30 - 130 %	
% Phenol-d5	65			%	1	10/30/19	WB	30 - 130 %	
% Terphenyl-d14	63			%	1	10/30/19	WB	30 - 130 %	
Field Extraction	Completed					10/29/19		SW5035A	1

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

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

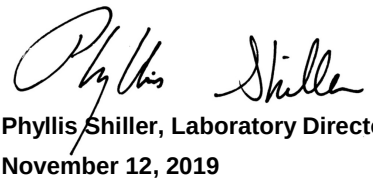
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director
November 12, 2019
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

November 12, 2019

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/29/19	9:45
Location Code:	WALDENE	Received by:	LB	10/29/19	16:56
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCE50381
Phoenix ID: CE50383

Project ID: IPARK 0118.35
Client ID: B-2 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Aluminum	12900	53	7.1	mg/Kg	10	10/30/19	CPP	SW6010D
Antimony	ND	3.6	3.6	mg/Kg	1	10/30/19	CPP	SW6010D
Arsenic	4.67	0.71	0.71	mg/Kg	1	10/30/19	CPP	SW6010D
Barium	39.2	0.36	0.36	mg/Kg	1	10/30/19	CPP	SW6010D
Beryllium	0.34	0.28	0.14	mg/Kg	1	10/30/19	CPP	SW6010D
Calcium	12000	53	33	mg/Kg	10	10/30/19	CPP	SW6010D
Cadmium	0.68	0.36	0.36	mg/Kg	1	10/30/19	CPP	SW6010D
Chromium	12.4	0.36	0.36	mg/Kg	1	10/30/19	CPP	SW6010D
Cobalt	11.0	0.36	0.36	mg/Kg	1	10/30/19	CPP	SW6010D
Copper	30.0	0.7	0.36	mg/kg	1	10/30/19	CPP	SW6010D
Iron	29600	53	36	mg/Kg	10	10/30/19	CPP	SW6010D
Lead	12.4	0.36	0.36	mg/Kg	1	10/30/19	CPP	SW6010D
Magnesium	7950	53	36	mg/Kg	10	10/30/19	CPP	SW6010D
Manganese	974	3.6	3.6	mg/Kg	10	10/30/19	CPP	SW6010D
Mercury	ND	0.02	0.02	mg/Kg	2	10/30/19	MGH	SW7471B
Nickel	23.8	0.36	0.36	mg/Kg	1	10/30/19	CPP	SW6010D
Potassium	1000	5.3	2.8	mg/Kg	1	10/30/19	CPP	SW6010D
Selenium	ND	1.4	1.2	mg/Kg	1	10/30/19	CPP	SW6010D
Silver	ND	0.36	0.36	mg/Kg	1	10/30/19	CPP	SW6010D
Sodium	105	5.3	3.1	mg/Kg	1	10/30/19	CPP	SW6010D
Thallium	ND	3.2	1.4	mg/Kg	1	10/30/19	CPP	SW6010D
Vanadium	13.1	0.36	0.36	mg/Kg	1	10/30/19	CPP	SW6010D
Zinc	68.1	0.7	0.36	mg/Kg	1	10/30/19	CPP	SW6010D
Percent Solid	95			%		10/29/19	VT	SW846-%Solid
Soil Extraction for SVOA	Completed					10/29/19	KK/UL	SW3545A
Mercury Digestion	Completed					10/30/19	Q/Q	SW7471B
Total Metals Digest	Completed					10/29/19	B/AG/BF	SW3050B

Ver 2

Project ID: IPARK 0118.35
Client ID: B-2 (0-2)

Phoenix I.D.: CE50383

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,1-Trichloroethane	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,2-Trichloroethane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloroethane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloroethene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloropropene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,3-Trichloropropane	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dibromoethane	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichlorobenzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichloroethane	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichloropropane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3-Dichlorobenzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3-Dichloropropane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
1,4-Dichlorobenzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
2,2-Dichloropropane	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Chlorotoluene	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Hexanone	ND		16	3.2	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Isopropyltoluene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	1
4-Chlorotoluene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
4-Methyl-2-pentanone	ND		16	3.2	ug/Kg	1	10/30/19	JLI	SW8260C	
Acetone	3.6	JS	16	3.2	ug/Kg	1	10/30/19	JLI	SW8260C	
Acrylonitrile	ND		6.4	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Benzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromobenzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromochloromethane	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromodichloromethane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromoform	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromomethane	ND		3.2	1.3	ug/Kg	1	10/30/19	JLI	SW8260C	
Carbon Disulfide	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Carbon tetrachloride	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Chlorobenzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloroethane	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloroform	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloromethane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Dibromochloromethane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Dibromomethane	ND		3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Dichlorodifluoromethane	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Ethylbenzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Hexachlorobutadiene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Isopropylbenzene	ND		3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	

Project ID: IPARK 0118.35
Client ID: B-2 (0-2)

Phoenix I.D.: CE50383

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Methyl Ethyl Ketone	ND	16	3.2	ug/Kg	1	10/30/19	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	6.4	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Methylene chloride	ND	6.4	3.2	ug/Kg	1	10/30/19	JLI	SW8260C	
Naphthalene	ND	3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
n-Butylbenzene	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
n-Propylbenzene	ND	3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
o-Xylene	ND	3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
p-Isopropyltoluene	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
sec-Butylbenzene	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Styrene	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
tert-Butylbenzene	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Tetrachloroethene	ND	3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Tetrahydrofuran (THF)	12	6.4	1.6	ug/Kg	1	10/30/19	JLI	SW8260C	1
Toluene	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Total Xylenes	ND	3.2	3.2	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	6.4	1.6	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichloroethene	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichlorofluoromethane	ND	3.2	0.64	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichlorotrifluoroethane	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
Vinyl chloride	ND	3.2	0.32	ug/Kg	1	10/30/19	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	1	10/30/19	JLI	70 - 130 %	
% Bromofluorobenzene	94			%	1	10/30/19	JLI	70 - 130 %	
% Dibromofluoromethane	98			%	1	10/30/19	JLI	70 - 130 %	
% Toluene-d8	97			%	1	10/30/19	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	82	ug/Kg	1	10/30/19	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	10/30/19	WB	SW8270D	
1,2-Dichlorobenzene	ND	240	97	ug/Kg	1	10/30/19	WB	SW8270D	
1,2-Diphenylhydrazine	ND	340	140	ug/Kg	1	10/30/19	WB	SW8270D	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	10/30/19	WB	SW8270D	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	10/30/19	WB	SW8270D	
2,4,5-Trichlorophenol	ND	240	89	ug/Kg	1	10/30/19	WB	SW8270D	
2,4,6-Trichlorophenol	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dichlorophenol	ND	240	120	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dimethylphenol	ND	240	85	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dinitrophenol	ND	340	170	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dinitrotoluene	ND	240	130	ug/Kg	1	10/30/19	WB	SW8270D	
2,6-Dinitrotoluene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D	
2-Chloronaphthalene	ND	240	97	ug/Kg	1	10/30/19	WB	SW8270D	
2-Chlorophenol	ND	240	97	ug/Kg	1	10/30/19	WB	SW8270D	
2-Methylnaphthalene	ND	240	100	ug/Kg	1	10/30/19	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	240	140	ug/Kg	1	10/30/19	WB	SW8270D	
2-Nitroaniline	ND	340	140	ug/Kg	1	10/30/19	WB	SW8270D	
2-Nitrophenol	ND	240	140	ug/Kg	1	10/30/19	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	340	130	ug/Kg	1	10/30/19	WB	SW8270D	

Project ID: IPARK 0118.35
Client ID: B-2 (0-2)

Phoenix I.D.: CE50383

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	240	160	ug/Kg	1	10/30/19	WB	SW8270D
3-Nitroaniline	ND	340	140	ug/Kg	1	10/30/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	340	140	ug/Kg	1	10/30/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	340	100	ug/Kg	1	10/30/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	10/30/19	WB	SW8270D
4-Chloroaniline	ND	240	140	ug/Kg	1	10/30/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
4-Nitroaniline	ND	550	110	ug/Kg	1	10/30/19	WB	SW8270D
4-Nitrophenol	ND	240	68	ug/Kg	1	10/30/19	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	10/30/19	WB	SW8270D
Acenaphthylene	ND	240	96	ug/Kg	1	10/30/19	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Aniline	ND	340	140	ug/Kg	1	10/30/19	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Benz(a)anthracene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Benzidine	ND	240	140	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(a)pyrene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Benzoic acid	ND	680	140	ug/Kg	1	10/30/19	WB	SW8270D
Benzyl butyl phthalate	ND	240	88	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	94	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	340	92	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	95	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	99	ug/Kg	1	10/30/19	WB	SW8270D
Carbazole	ND	340	140	ug/Kg	1	10/30/19	WB	SW8270D
Chrysene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	10/30/19	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Di-n-butylphthalate	ND	340	140	ug/Kg	1	10/30/19	WB	SW8270D
Di-n-octylphthalate	ND	240	88	ug/Kg	1	10/30/19	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorobenzene	ND	240	100	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	100	ug/Kg	1	10/30/19	WB	SW8270D
Hexachloroethane	ND	240	100	ug/Kg	1	10/30/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
Isophorone	ND	240	96	ug/Kg	1	10/30/19	WB	SW8270D
Naphthalene	ND	240	99	ug/Kg	1	10/30/19	WB	SW8270D
Nitrobenzene	ND	240	120	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodimethylamine	ND	340	97	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	340	130	ug/Kg	1	10/30/19	WB	SW8270D
Pentachloronitrobenzene	ND	340	100	ug/Kg	1	10/30/19	WB	SW8270D
Pentachlorophenol	ND	340	130	ug/Kg	1	10/30/19	WB	SW8270D

Project ID: IPARK 0118.35
Client ID: B-2 (0-2)

Phoenix I.D.: CE50383

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Phenanthrene	ND	240	98	ug/Kg	1	10/30/19	WB	SW8270D	
Phenol	ND	240	110	ug/Kg	1	10/30/19	WB	SW8270D	
Pyrene	ND	240	120	ug/Kg	1	10/30/19	WB	SW8270D	
Pyridine	ND	340	84	ug/Kg	1	10/30/19	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	65			%	1	10/30/19	WB	30 - 130 %	
% 2-Fluorobiphenyl	49			%	1	10/30/19	WB	30 - 130 %	
% 2-Fluorophenol	47			%	1	10/30/19	WB	30 - 130 %	
% Nitrobenzene-d5	52			%	1	10/30/19	WB	30 - 130 %	
% Phenol-d5	57			%	1	10/30/19	WB	30 - 130 %	
% Terphenyl-d14	52			%	1	10/30/19	WB	30 - 130 %	
Field Extraction	Completed					10/29/19		SW5035A	1

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

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

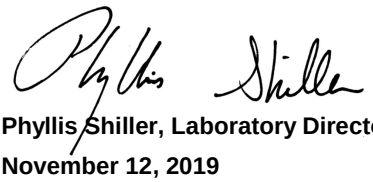
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director
November 12, 2019
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

November 12, 2019

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/29/19	9:40
Location Code:	WALDENE	Received by:	LB	10/29/19	16:56
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCE50381
Phoenix ID: CE50384

Project ID: IPARK 0118.35
Client ID: B-2 (7-10)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Aluminum	17000	58	7.8	mg/Kg	10	10/30/19	CPP	SW6010D
Antimony	ND	3.9	3.9	mg/Kg	1	10/30/19	CPP	SW6010D
Arsenic	7.44	0.78	0.78	mg/Kg	1	10/30/19	CPP	SW6010D
Barium	72.2	0.39	0.39	mg/Kg	1	10/30/19	CPP	SW6010D
Beryllium	0.59	0.31	0.16	mg/Kg	1	10/30/19	CPP	SW6010D
Calcium	7430	5.8	3.6	mg/Kg	1	10/30/19	CPP	SW6010D
Cadmium	0.68	0.39	0.39	mg/Kg	1	10/30/19	CPP	SW6010D
Chromium	16.4	0.39	0.39	mg/Kg	1	10/30/19	CPP	SW6010D
Cobalt	12.5	0.39	0.39	mg/Kg	1	10/30/19	CPP	SW6010D
Copper	31.6	0.8	0.39	mg/kg	1	10/30/19	CPP	SW6010D
Iron	33900	58	39	mg/Kg	10	10/30/19	CPP	SW6010D
Lead	14.8	0.39	0.39	mg/Kg	1	10/30/19	CPP	SW6010D
Magnesium	7720	58	39	mg/Kg	10	10/30/19	CPP	SW6010D
Manganese	1010	3.9	3.9	mg/Kg	10	10/30/19	CPP	SW6010D
Mercury	ND	0.03	0.02	mg/Kg	2	10/30/19	MGH	SW7471B
Nickel	25.4	0.39	0.39	mg/Kg	1	10/30/19	CPP	SW6010D
Potassium	1670	5.8	3.0	mg/Kg	1	10/30/19	CPP	SW6010D
Selenium	ND	1.6	1.3	mg/Kg	1	10/30/19	CPP	SW6010D
Silver	ND	0.39	0.39	mg/Kg	1	10/30/19	CPP	SW6010D
Sodium	121	5.8	3.3	mg/Kg	1	10/30/19	CPP	SW6010D
Thallium	ND	3.5	1.6	mg/Kg	1	10/30/19	CPP	SW6010D
Vanadium	18.6	0.39	0.39	mg/Kg	1	10/30/19	CPP	SW6010D
Zinc	68.5	0.8	0.39	mg/Kg	1	10/30/19	CPP	SW6010D
Percent Solid	88			%		10/29/19	VT	SW846-%Solid
Soil Extraction for SVOA	Completed					10/29/19	KK/UL	SW3545A
Mercury Digestion	Completed					10/30/19	Q/Q	SW7471B
Total Metals Digest	Completed					10/29/19	B/AG/BF	SW3050B

Ver 2

Project ID: IPARK 0118.35
Client ID: B-2 (7-10)

Phoenix I.D.: CE50384

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,1-Trichloroethane	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1,2-Trichloroethane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloroethane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloroethene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,1-Dichloropropene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,3-Trichloropropane	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dibromoethane	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichlorobenzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichloroethane	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,2-Dichloropropane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3-Dichlorobenzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
1,3-Dichloropropane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
1,4-Dichlorobenzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
2,2-Dichloropropane	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Chlorotoluene	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Hexanone	ND	13	2.5	ug/Kg	1	10/30/19	JLI	SW8260C	
2-Isopropyltoluene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	1
4-Chlorotoluene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
4-Methyl-2-pentanone	ND	13	2.5	ug/Kg	1	10/30/19	JLI	SW8260C	
Acetone	ND	13	2.5	ug/Kg	1	10/30/19	JLI	SW8260C	
Acrylonitrile	ND	5.0	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Benzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromobenzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromochloromethane	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromodichloromethane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromoform	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Bromomethane	ND	2.5	1.0	ug/Kg	1	10/30/19	JLI	SW8260C	
Carbon Disulfide	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Carbon tetrachloride	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Chlorobenzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloroethane	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloroform	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Chloromethane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Dibromochloromethane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Dibromomethane	ND	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Dichlorodifluoromethane	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Ethylbenzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Hexachlorobutadiene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Isopropylbenzene	ND	2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	

Project ID: IPARK 0118.35
Client ID: B-2 (7-10)

Phoenix I.D.: CE50384

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Methyl Ethyl Ketone	ND		13	2.5	ug/Kg	1	10/30/19	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		5.0	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Methylene chloride	ND		5.0	2.5	ug/Kg	1	10/30/19	JLI	SW8260C	
Naphthalene	ND		2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
n-Butylbenzene	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
n-Propylbenzene	ND		2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
o-Xylene	ND		2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
p-Isopropyltoluene	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
sec-Butylbenzene	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Styrene	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
tert-Butylbenzene	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Tetrachloroethene	0.73	J	2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Tetrahydrofuran (THF)	6.3		5.0	1.3	ug/Kg	1	10/30/19	JLI	SW8260C	1
Toluene	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Total Xylenes	ND		2.5	2.5	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		5.0	1.3	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichloroethene	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichlorofluoromethane	ND		2.5	0.50	ug/Kg	1	10/30/19	JLI	SW8260C	
Trichlorotrifluoroethane	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
Vinyl chloride	ND		2.5	0.25	ug/Kg	1	10/30/19	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	10/30/19	JLI	70 - 130 %	
% Bromofluorobenzene	94				%	1	10/30/19	JLI	70 - 130 %	
% Dibromofluoromethane	98				%	1	10/30/19	JLI	70 - 130 %	
% Toluene-d8	96				%	1	10/30/19	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		260	89	ug/Kg	1	10/30/19	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
1,2-Dichlorobenzene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
1,2-Diphenylhydrazine	ND		370	150	ug/Kg	1	10/30/19	WB	SW8270D	
1,3-Dichlorobenzene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
1,4-Dichlorobenzene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
2,4,5-Trichlorophenol	ND		260	97	ug/Kg	1	10/30/19	WB	SW8270D	
2,4,6-Trichlorophenol	ND		260	120	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dichlorophenol	ND		260	130	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dimethylphenol	ND		260	92	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dinitrophenol	ND		370	190	ug/Kg	1	10/30/19	WB	SW8270D	
2,4-Dinitrotoluene	ND		260	150	ug/Kg	1	10/30/19	WB	SW8270D	
2,6-Dinitrotoluene	ND		260	120	ug/Kg	1	10/30/19	WB	SW8270D	
2-Chloronaphthalene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
2-Chlorophenol	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
2-Methylnaphthalene	ND		260	110	ug/Kg	1	10/30/19	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		260	150	ug/Kg	1	10/30/19	WB	SW8270D	
2-Nitroaniline	ND		370	150	ug/Kg	1	10/30/19	WB	SW8270D	
2-Nitrophenol	ND		260	150	ug/Kg	1	10/30/19	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		370	150	ug/Kg	1	10/30/19	WB	SW8270D	

Project ID: IPARK 0118.35
Client ID: B-2 (7-10)

Phoenix I.D.: CE50384

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	260	180	ug/Kg	1	10/30/19	WB	SW8270D
3-Nitroaniline	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	110	ug/Kg	1	10/30/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
4-Chloroaniline	ND	260	150	ug/Kg	1	10/30/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
4-Nitroaniline	ND	600	120	ug/Kg	1	10/30/19	WB	SW8270D
4-Nitrophenol	ND	260	75	ug/Kg	1	10/30/19	WB	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	10/30/19	WB	SW8270D
Acetophenone	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Aniline	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
Anthracene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Benz(a)anthracene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
Benzidine	ND	260	150	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(a)pyrene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(b)fluoranthene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(ghi)perylene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzo(k)fluoranthene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Benzoic acid	ND	750	150	ug/Kg	1	10/30/19	WB	SW8270D
Benzyl butyl phthalate	ND	260	96	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	100	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	10/30/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Carbazole	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
Chrysene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Dimethylphthalate	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Di-n-butylphthalate	ND	370	150	ug/Kg	1	10/30/19	WB	SW8270D
Di-n-octylphthalate	ND	260	96	ug/Kg	1	10/30/19	WB	SW8270D
Fluoranthene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Fluorene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorobenzene	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Hexachloroethane	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
Isophorone	ND	260	100	ug/Kg	1	10/30/19	WB	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D
Nitrobenzene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodimethylamine	ND	370	110	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	140	ug/Kg	1	10/30/19	WB	SW8270D
Pentachloronitrobenzene	ND	370	110	ug/Kg	1	10/30/19	WB	SW8270D
Pentachlorophenol	ND	370	140	ug/Kg	1	10/30/19	WB	SW8270D

Project ID: IPARK 0118.35
Client ID: B-2 (7-10)

Phoenix I.D.: CE50384

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Phenanthrene	ND	260	110	ug/Kg	1	10/30/19	WB	SW8270D	
Phenol	ND	260	120	ug/Kg	1	10/30/19	WB	SW8270D	
Pyrene	ND	260	130	ug/Kg	1	10/30/19	WB	SW8270D	
Pyridine	ND	370	92	ug/Kg	1	10/30/19	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	75			%	1	10/30/19	WB	30 - 130 %	
% 2-Fluorobiphenyl	53			%	1	10/30/19	WB	30 - 130 %	
% 2-Fluorophenol	53			%	1	10/30/19	WB	30 - 130 %	
% Nitrobenzene-d5	58			%	1	10/30/19	WB	30 - 130 %	
% Phenol-d5	62			%	1	10/30/19	WB	30 - 130 %	
% Terphenyl-d14	57			%	1	10/30/19	WB	30 - 130 %	
Field Extraction	Completed					10/29/19		SW5035A	1

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

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

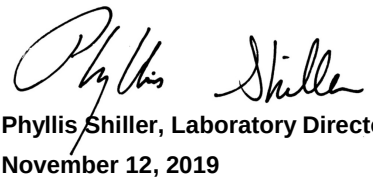
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

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

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



Phyllis Shiller, Laboratory Director
November 12, 2019
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

November 12, 2019

QA/QC Data

SDG I.D.: GCE50381

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 503938 (mg/kg), QC Sample No: CE50514 2X (CE50381, CE50382, CE50383, CE50384)														
Mercury - Soil	BRL	0.03	<0.03	0.03	NC	113	118	4.3	99.8	101	1.2	75 - 125	30	
QA/QC Batch 503846 (mg/kg), QC Sample No: CE49815 (CE50381, CE50382, CE50383, CE50384)														
ICP Metals - Soil														
Aluminum	BRL	5.0	14800	13700	7.70	117	115	1.7	NC			80 - 120	30	
Antimony	BRL	3.3	<3.6	<3.4	NC	102	103	1.0	94.2			70 - 130	30	
Arsenic	BRL	0.67	1.53	1.68	NC	105	103	1.9	99.9			80 - 120	30	
Barium	BRL	0.33	107	96.2	10.6	107	109	1.9	119			80 - 120	30	
Beryllium	BRL	0.27	0.50	0.73	NC	103	103	0.0	102			80 - 120	30	
Cadmium	BRL	0.33	0.37	0.60	NC	91.8	91.6	0.2	99.7			80 - 120	30	
Calcium	BRL	5.0	1910	1690	12.2	102	101	1.0	NC			80 - 120	30	
Chromium	BRL	0.33	33.0	32.0	3.10	106	105	0.9	102			80 - 120	30	
Cobalt	BRL	0.33	11.8	11.8	0	103	103	0.0	100			80 - 120	30	
Copper	BRL	0.67	35.9	36.9	2.70	115	115	0.0	99.3			80 - 120	30	
Iron	BRL	5.0	26900	25700	4.60	103	105	1.9	NC			80 - 120	30	
Lead	BRL	0.33	9.44	9.35	1.00	100	99.7	0.3	91.9			80 - 120	30	
Magnesium	BRL	5.0	4840	4770	1.50	104	104	0.0	NC			80 - 120	30	
Manganese	BRL	0.33	387	369	4.80	98.2	99.0	0.8	108			80 - 120	30	
Nickel	BRL	0.33	22.2	22.8	2.70	104	105	1.0	99.9			80 - 120	30	
Potassium	BRL	5.0	3890	3480	11.1	116	118	1.7	NC			80 - 120	30	
Selenium	BRL	1.3	<1.4	<1.4	NC	87.6	85.3	2.7	97.3			80 - 120	30	
Silver	BRL	0.33	<0.36	<0.34	NC	113	112	0.9	98.8			70 - 130	30	
Sodium	BRL	5.0	135	114	16.9	121	122	0.8	>130			80 - 120	30	l,m
Thallium	BRL	3.0	<3.2	<3.1	NC	99.2	98.4	0.8	97.5			80 - 120	30	
Vanadium	BRL	0.33	51.4	46.3	10.4	107	108	0.9	101			80 - 120	30	
Zinc	BRL	0.67	54.0	68.6	23.8	101	102	1.0	102			80 - 120	30	

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

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

NY # 11301

QA/QC Report

November 12, 2019

QA/QC Data

SDG I.D.: GCE50381

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 503784 (ug/kg), QC Sample No: CE49740 (CE50381, CE50382, CE50383, CE50384)											
Semivolatiles - Soil											
1,2,4,5-Tetrachlorobenzene	ND	230	48	42	13.3	49			30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	50	42	17.4	48			30 - 130	30	
1,2-Dichlorobenzene	ND	180	45	38	16.9	42			30 - 130	30	
1,2-Diphenylhydrazine	ND	230	55	48	13.6	61			30 - 130	30	
1,3-Dichlorobenzene	ND	230	35	38	8.2	33			30 - 130	30	
1,4-Dichlorobenzene	ND	230	44	38	14.6	38			30 - 130	30	
2,4,5-Trichlorophenol	ND	230	63	52	19.1	69			30 - 130	30	
2,4,6-Trichlorophenol	ND	130	57	49	15.1	62			30 - 130	30	
2,4-Dichlorophenol	ND	130	61	50	19.8	64			30 - 130	30	
2,4-Dimethylphenol	ND	230	66	57	14.6	68			30 - 130	30	
2,4-Dinitrophenol	ND	230	43	39	9.8	32			30 - 130	30	
2,4-Dinitrotoluene	ND	130	61	54	12.2	69			30 - 130	30	
2,6-Dinitrotoluene	ND	130	60	51	16.2	66			30 - 130	30	
2-Chloronaphthalene	ND	230	56	46	19.6	56			30 - 130	30	
2-Chlorophenol	ND	230	57	48	17.1	60			30 - 130	30	
2-Methylnaphthalene	ND	230	49	44	10.8	52			30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	86	76	12.3	97			30 - 130	30	
2-Nitroaniline	ND	330	105	97	7.9	128			30 - 130	30	
2-Nitrophenol	ND	230	59	48	20.6	60			30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	65	54	18.5	69			30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	73	65	11.6	76			30 - 130	30	
3-Nitroaniline	ND	330	75	67	11.3	88			30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	57	54	5.4	64			30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	56	49	13.3	61			30 - 130	30	
4-Chloro-3-methylphenol	ND	230	64	53	18.8	72			30 - 130	30	
4-Chloroaniline	ND	230	61	56	8.5	72			30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	54	47	13.9	59			30 - 130	30	
4-Nitroaniline	ND	230	71	60	16.8	77			30 - 130	30	
4-Nitrophenol	ND	230	70	66	5.9	84			30 - 130	30	
Acenaphthene	ND	230	55	48	13.6	58			30 - 130	30	
Acenaphthylene	ND	130	55	47	15.7	56			30 - 130	30	
Acetophenone	ND	230	48	42	13.3	52			30 - 130	30	
Aniline	ND	330	33	39	16.7	50			30 - 130	30	
Anthracene	ND	230	58	51	12.8	64			30 - 130	30	
Benz(a)anthracene	ND	230	64	60	6.5	72			30 - 130	30	
Benzidine	ND	330	14	11	24.0	12			30 - 130	30	l,m
Benzo(a)pyrene	ND	130	64	60	6.5	70			30 - 130	30	
Benzo(b)fluoranthene	ND	160	60	59	1.7	66			30 - 130	30	
Benzo(ghi)perylene	ND	230	59	56	5.2	72			30 - 130	30	
Benzo(k)fluoranthene	ND	230	62	56	10.2	67			30 - 130	30	
Benzoic Acid	ND	330	30	23	26.4	20			30 - 130	30	l,m

QA/QC Data

SDG I.D.: GCE50381

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzyl butyl phthalate	ND	230	68	61	10.9	75			30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	53	45	16.3	55			30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	40	39	2.5	47			30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	46	39	16.5	47			30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	69	61	12.3	76			30 - 130	30	
Carbazole	ND	230	62	55	12.0	70			30 - 130	30	
Chrysene	ND	230	63	60	4.9	70			30 - 130	30	
Dibenz(a,h)anthracene	ND	130	65	60	8.0	76			30 - 130	30	
Dibenzofuran	ND	230	55	47	15.7	60			30 - 130	30	
Diethyl phthalate	ND	230	54	48	11.8	61			30 - 130	30	
Dimethylphthalate	ND	230	57	47	19.2	61			30 - 130	30	
Di-n-butylphthalate	ND	670	64	56	13.3	73			30 - 130	30	
Di-n-octylphthalate	ND	230	74	65	12.9	80			30 - 130	30	
Fluoranthene	ND	230	58	56	3.5	67			30 - 130	30	
Fluorene	ND	230	55	49	11.5	61			30 - 130	30	
Hexachlorobenzene	ND	130	64	56	13.3	69			30 - 130	30	
Hexachlorobutadiene	ND	230	46	40	14.0	42			30 - 130	30	
Hexachlorocyclopentadiene	ND	230	32	32	0.0	26			30 - 130	30	m
Hexachloroethane	ND	130	46	38	19.0	35			30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	64	60	6.5	75			30 - 130	30	
Isophorone	ND	130	51	44	14.7	55			30 - 130	30	
Naphthalene	ND	230	48	42	13.3	50			30 - 130	30	
Nitrobenzene	ND	130	48	44	8.7	53			30 - 130	30	
N-Nitrosodimethylamine	ND	230	36	38	5.4	48			30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	51	47	8.2	58			30 - 130	30	
N-Nitrosodiphenylamine	ND	130	57	50	13.1	64			30 - 130	30	
Pentachloronitrobenzene	ND	230	60	54	10.5	68			30 - 130	30	
Pentachlorophenol	ND	230	45	39	14.3	61			30 - 130	30	
Phenanthrene	ND	130	55	51	7.5	61			30 - 130	30	
Phenol	ND	230	60	50	18.2	65			30 - 130	30	
Pyrene	ND	230	60	57	5.1	69			30 - 130	30	
Pyridine	ND	230	19	25	27.3	30			30 - 130	30	l
% 2,4,6-Tribromophenol	53	%	80	62	25.4	82			30 - 130	30	
% 2-Fluorobiphenyl	38	%	55	43	24.5	53			30 - 130	30	
% 2-Fluorophenol	31	%	48	42	13.3	51			30 - 130	30	
% Nitrobenzene-d5	34	%	51	43	17.0	55			30 - 130	30	
% Phenol-d5	39	%	56	48	15.4	60			30 - 130	30	
% Terphenyl-d14	48	%	54	46	16.0	60			30 - 130	30	

Comment:

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

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

QA/QC Batch 503972 (ug/kg), QC Sample No: CE50384 (CE50381, CE50382, CE50383, CE50384)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	88	92	4.4				70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	77	80	3.8				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	81	88	8.3				70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	85	90	5.7				70 - 130	30	
1,1-Dichloroethane	ND	5.0	88	90	2.2				70 - 130	30	
1,1-Dichloroethene	ND	5.0	85	85	0.0				70 - 130	30	
1,1-Dichloropropene	ND	5.0	83	86	3.6				70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	94	99	5.2				70 - 130	30	

QA/QC Data

SDG I.D.: GCE50381

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichloropropane	ND	5.0	74	79	6.5				70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	98	101	3.0				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	84	87	3.5				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	85	89	4.6				70 - 130	30	
1,2-Dibromoethane	ND	5.0	84	88	4.7				70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	85	90	5.7				70 - 130	30	
1,2-Dichloroethane	ND	5.0	72	76	5.4				70 - 130	30	
1,2-Dichloropropane	ND	5.0	86	90	4.5				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	84	88	4.7				70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	88	92	4.4				70 - 130	30	
1,3-Dichloropropane	ND	5.0	80	86	7.2				70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	87	91	4.5				70 - 130	30	
2,2-Dichloropropane	ND	5.0	81	84	3.6				70 - 130	30	
2-Chlorotoluene	ND	5.0	85	89	4.6				70 - 130	30	
2-Hexanone	ND	25	68	73	7.1				70 - 130	30	I
2-Isopropyltoluene	ND	5.0	89	93	4.4				70 - 130	30	
4-Chlorotoluene	ND	5.0	86	90	4.5				70 - 130	30	
4-Methyl-2-pentanone	ND	25	75	81	7.7				70 - 130	30	
Acetone	ND	10	70	72	2.8				70 - 130	30	
Acrylonitrile	ND	5.0	87	90	3.4				70 - 130	30	
Benzene	ND	1.0	86	91	5.6				70 - 130	30	
Bromobenzene	ND	5.0	87	92	5.6				70 - 130	30	
Bromochloromethane	ND	5.0	88	91	3.4				70 - 130	30	
Bromodichloromethane	ND	5.0	81	87	7.1				70 - 130	30	
Bromoform	ND	5.0	87	94	7.7				70 - 130	30	
Bromomethane	ND	5.0	83	88	5.8				70 - 130	30	
Carbon Disulfide	ND	5.0	87	88	1.1				70 - 130	30	
Carbon tetrachloride	ND	5.0	83	84	1.2				70 - 130	30	
Chlorobenzene	ND	5.0	87	93	6.7				70 - 130	30	
Chloroethane	ND	5.0	83	84	1.2				70 - 130	30	
Chloroform	ND	5.0	79	83	4.9				70 - 130	30	
Chloromethane	ND	5.0	86	88	2.3				70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	87	92	5.6				70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	84	90	6.9				70 - 130	30	
Dibromochloromethane	ND	3.0	87	93	6.7				70 - 130	30	
Dibromomethane	ND	5.0	80	87	8.4				70 - 130	30	
Dichlorodifluoromethane	ND	5.0	100	103	3.0				70 - 130	30	
Ethylbenzene	ND	1.0	87	93	6.7				70 - 130	30	
Hexachlorobutadiene	ND	5.0	92	97	5.3				70 - 130	30	
Isopropylbenzene	ND	1.0	83	89	7.0				70 - 130	30	
m&p-Xylene	ND	2.0	87	92	5.6				70 - 130	30	
Methyl ethyl ketone	ND	5.0	75	79	5.2				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	79	81	2.5				70 - 130	30	
Methylene chloride	ND	5.0	64	66	3.1				70 - 130	30	I
Naphthalene	ND	5.0	88	96	8.7				70 - 130	30	
n-Butylbenzene	ND	1.0	86	90	4.5				70 - 130	30	
n-Propylbenzene	ND	1.0	87	91	4.5				70 - 130	30	
o-Xylene	ND	2.0	87	94	7.7				70 - 130	30	
p-Isopropyltoluene	ND	1.0	86	91	5.6				70 - 130	30	
sec-Butylbenzene	ND	1.0	89	94	5.5				70 - 130	30	
Styrene	ND	5.0	87	92	5.6				70 - 130	30	
tert-Butylbenzene	ND	1.0	82	87	5.9				70 - 130	30	
Tetrachloroethene	ND	5.0	95	98	3.1				70 - 130	30	

QA/QC Data

SDG I.D.: GCE50381

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrahydrofuran (THF)	ND	5.0	82	85	3.6				70 - 130	30
Toluene	ND	1.0	88	93	5.5				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	84	85	1.2				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	81	86	6.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	89	97	8.6				70 - 130	30
Trichloroethene	ND	5.0	90	93	3.3				70 - 130	30
Trichlorofluoromethane	ND	5.0	80	82	2.5				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	91	91	0.0				70 - 130	30
Vinyl chloride	ND	5.0	81	83	2.4				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	99	98	1.0				70 - 130	30
% Bromofluorobenzene	94	%	96	97	1.0				70 - 130	30
% Dibromofluoromethane	99	%	103	102	1.0				70 - 130	30
% Toluene-d8	97	%	98	99	1.0				70 - 130	30

Comment:

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

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

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

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

Phyllis Shiller, Laboratory Director
November 12, 2019

Tuesday, November 12, 2019

Criteria: NY: 375, 375RS

State: NY

Sample Criteria Exceedances Report

GCE50381 - WALDENE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CE50381	MN-SM	Manganese	NY / 375-6.8 Metals / Residential	2860	32	2000	2000	mg/Kg
CE50381	MN-SM	Manganese	NY / 375-6.8 Metals / Unrestricted Use Soil	2860	32	1600	1600	mg/Kg

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

November 12, 2019

SDG I.D.: GCE50381

The samples in this delivery group were received at 3.4°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☒ ICE ☐ No ☐

PHOENIX Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

Temp 3.4 °C Pg of

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☒ Phone: 516 5841624
☐ Fax:
☐ Email: nbrew@waldon-associates.com

Customer: Waldon Environmental Engineering
Address: 2070 Route 52
Hopewell Junction, NY 12533

Project: Park 0118.35
Report to: Nora Brew
Invoice to: Mike Buckley
QUOTE # : Park 0118.35

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 10/29/19

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request: EPA Method 8260 (VOCs); EPA Method 8270 (SVOCs); EPA Method 6010C (Metals)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8260	8270	6010C	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [2] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL NAOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
50381	B-1 (0-2)	S	10/29/19	9:20	X	X	X	1	4										
50382	B-1 (7-10)	S	10/29/19	9:10	X	X	X	1	1										
50383	B-2 (0-2)	S	10/29/19	9:45	X	X	X	1	1										
50384	B-2 (7-10)	S	10/29/19	9:40	X	X	X	1	1										

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	10/29/19	11:45
	[signature]	10/29/19	1056

Comments, Special Requirements or Regulations:

Data Format:
☐ Phoenix Std Report ☐ EQuIS
☒ Excel ☐ NJ Hazsite EDD
☒ PDF ☐ NY EZ EDD (ASP)
☐ GIS/Key ☐ Other

Turnaround:
☒ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

Data Package:
☐ NJ Reduced Deliv. *
☐ Other
☐ NY Enhanced (ASP B) *

NY
☐ TOGS GW
☐ CP-51 SOIL
☒ 375SCO Unrestricted Soil
☒ 375SCO Residential Soil
☐ 375SCO Residential
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

Bobbi Aloisa

From: Michael Lapman
Sent: Friday, November 08, 2019 9:59 AM
To: Bobbi Aloisa
Subject: FW: iPark 0118.35

Bobbi:

Please see the below from Erica. Let me know. Thank you.

Our ID—GCE50381

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
Laboratory: 860.812.0086
www.phoenixlabs.com

From: Erica M Johnston <ejohnston@walden-associates.com>
Date: Friday, November 8, 2019 at 9:56 AM
To: 'Kerri Ann Wright' <kawright@walden-associates.com>, Michael Lapman <michael@phoenixlabs.com>
Subject: RE: iPark 0118.35

Hi Michael,

Sorry for the confusion here. Are we able to request ASP B Data Package or is it too late to re-run it? We are looking to be consistent with our other data. I apologize! If there's any way we can add the qualifiers, please let me know.

-Erica

APPENDIX C

DAILY REPORT

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
16 SPRING STREET
OYSTER BAY, NEW YORK 11771
P: (516) 624-7200 F: (516) 624-3219
WWW.WALDEN-ASSOCIATES.COM

AIR MONITORING DAILY REPORT

PROJECT: **IPARK**	DATE: 10/29/19	DAY OF WEEK: Tuesday
AGENCY: **NYSDEC**	WEATHER: Overcast/rain	TEMPERARTURE: 60°
CONTRACTOR:	CONTACT: M. Buckley	WIND: —
SITE ADDRESS: **2070 NY STATE 52 HOPEWELL JUNCTION, NEW YORK**	AIR MONITOR'S NAME: Erica Johnston SIGNATURE:	

DESCRIPTION OF WORK IN DETAIL

TIME/LOCATION	EQUIPMENT & READING	NOTES
TIME: 0800	Indoor)	Background Readings
	DUST: .007 PID: 0.0	
	-outdoor	
	DUST: .002 PID: 0.1	
TIME: 0815	Indoor	
	DUST: .013 PID: 0.0	
	Outdoor	
	DUST: .002 PID: 0.1	
TIME: 0830	Indoor	
	DUST: .018 PID: 0.0	
	Outdoor	
	DUST: .013 PID: 0.1	
TIME: 0845	Indoor	Drilling began @ 8:35
	DUST: .020 PID: 0.0	
	Outdoor	
	DUST: .002 PID: 0.1	
TIME: 0900	Indoor	
	DUST: 0.060 PID: 0.1	
	outdoor	
	DUST: 0.001 PID: 0.1	
TIME: 0915	Indoor	
	DUST: 0.042 PID: 0.1	
	outdoor	
	DUST: 0.003 PID: 0.1	
TIME: 0930	Indoor	End Work.
	DUST: 0.048 PID: 0.1	
	Outdoor	
	DUST: 0.001 PID: 0.1	
TIME: 0945	Indoor	Background Readings
	DUST: 0.058 PID: 0.1	
	Outdoor	
	DUST: 0.001 PID: 0.1	

APPENDIX D

CAMP-1 MONITORING DATA

iPARK 84 CAMPUS
2070 NY-ROUTE 52
HOPEWELL JUNCTION, NEW YORK

BUILDING 330D AIR MONITORING RESULTS
10/29/2019

Instrument		Data Properties	
Model	DustTrak II	Start Date	10/29/2019
Instrument S/N	8530173302	Start Time	7:55:38
		Stop Date	10/29/2019
		Stop Time	9:40:38
		Total Time	0:01:45:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	10/29/2019	8:10:38	0.005
2	10/29/2019	8:25:38	0.003
3	10/29/2019	8:40:38	0.002
4	10/29/2019	8:55:38	0.002
5	10/29/2019	9:10:38	0.002
6	10/29/2019	9:25:38	0.002
7	10/29/2019	9:40:38	0.001

==========
19/10/29 07:46
****
Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-903385
Unit Firmw V2.16

Running M Hygiene Mode
Datalog Mo Auto
Diagnostic No
Stop Reaso Power Down

Site ID RAE00000
User ID 1

Begin 10/29/2019 7:46
End 10/29/2019 9:51
Sample Per 900
Number of 8

Sensor PID(ppm)
Sensor SN S023030142V4
Measure Ty Avg
Span 100
Span 2 1000
Low Alarm 50
High Alarm 100
Over Alarm 15000
STEL Alarm 25
TWA Alarm 50
Measurem Isobutylene
Calibration 10/29/2019 7:46
Peak N/A
Min N/A
Average N/A

****
Datalog

Index	Date/Time	PID(ppm) (Avg)
1	10/29/2019 8:01	0
2	10/29/2019 8:16	0.1
3	10/29/2019 8:31	0.2
4	10/29/2019 8:46	0
5	10/29/2019 9:01	0

	6	10/29/2019 9:16	0.1
	7	10/29/2019 9:31	0.1
	8	10/29/2019 9:46	0.1
Peak			0.2
Min			0
Average			0.1

APPENDIX E

CAMP-2 MONITORING DATA

iPARK 84 CAMPUS
2070 NY-ROUTE 52
HOPEWELL JUNCTION, NEW YORK

BUILDING 330D AIR MONITORING RESULTS
10/29/2019

Instrument		Data Properties	
Model	DustTrak II	Start Date	10/29/2019
Instrument S/N	8530122512	Start Time	8:03:23
		Stop Date	10/29/2019
		Stop Time	9:48:23
		Total Time	0:01:45:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	10/29/2019	8:18:23	0.007
2	10/29/2019	8:33:23	0.004
3	10/29/2019	8:48:23	0.023
4	10/29/2019	9:03:23	0.021
5	10/29/2019	9:18:23	0.055
6	10/29/2019	9:33:23	0.064
7	10/29/2019	9:48:23	0.03

==========
19/10/29 07:47
****
Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-908676
Unit Firmw V2.16

Running M Hygiene Mode
Datalog Mo Auto
Diagnostic No
Stop Reaso Power Down

Site ID PES00003
User ID PES00000

Begin 10/29/2019 7:47
End 10/29/2019 9:47
Sample Per 900
Number of 7

Sensor PID(ppm)
Sensor SN S023030187VA
Measure Ty Avg
Span 100
Span 2 1000
Low Alarm 50
High Alarm 100
Over Alarm 15000
STEL Alarm 25
TWA Alarm 5
Measurem Isobutylene
Calibration 10/29/2019 7:47
Peak N/A
Min N/A
Average N/A

****
Datalog

Index	Date/Time	PID(ppm) (Avg)
1	10/29/2019 8:02	0
2	10/29/2019 8:17	0.4
3	10/29/2019 8:32	0.1
4	10/29/2019 8:47	0.1
5	10/29/2019 9:02	0.1

	6	10/29/2019 9:17	0.1
	7	10/29/2019 9:32	0.1
Peak			0.4
Min			0
Average			0.1