

Field Sampling Summary Report

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
FROM MONTGOMERY STREET TO EAST 15th STREET
BOROUGH OF MANHATTAN

NYCDDC PROJECT # SANDRESM1

Prepared for:



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MARCH 31, 2022

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1.0 INTRODUCTION

American Environmental Solutions, Inc. (AES) of Patchogue, New York, has been contracted by IPC Resiliency Partners (IPC) of Great Neck, New York, as their project environmental consultant to prepare a Field Sampling Summary Report (FSSR) for the New York City Department of Design and Construction (NYCDDC) East Side Coastal Resiliency project (Project No. SANDRESM1) located in Manhattan, New York. This FSSR documents field sampling activities, including the advancement of soil borings, soil screening, sample collection and analysis.

1.1 Project Description

The project work area extends approximately 1.5 miles along Manhattan's east side waterfront from East 15th Street to Montgomery Street, between FDR Drive and the East River. The site is primarily comprised of John V. Lindsay East River Park. This work area has been designated Project Area One. Due to the size and scope of the project, work areas have been delineated into Reaches A through J. The project location is shown on Figure 1.

The East Side Coastal Resiliency (ESCR) project involves construction of flood protection measures including installation of flood walls and closure structures. Project plans include construction of an above ground floodwall, a transition retaining wall, and installation of flood gates. The scope of work also includes infrastructure improvements to mitigate risk of flood damage including reconstruction of water mains and sewers. East River Park will be elevated nine feet and reconstructed, including existing park structures and recreational features, the amphitheater, track facility and tennis house. Proposed work also includes construction of new pedestrian bridges, street lighting and traffic work.

The infrastructure improvements will generate approximately 287,600 cubic yards (cy) of soil. Soils generated as part of the SANDRESM1 infrastructure activities will be managed as per applicable New York State Department of Environmental Conservation (NYSDEC) Part 375 Commercial Use Soil Cleanup Objectives (CSCOs) for road work areas and Restricted Residential Use SCOs (RRSCOs) for parkland and any additional specifications required by the DDC.

The excavation for infrastructure improvements will range from 4 feet to approximately 25 feet below grade (ftbg).

2.0 FIELD ACTIVITIES

AES performed in-situ sampling at the site project on February 9th, 10th and 11th, 2022. Fifty-nine (59) borings were advanced using a Geoprobe drill rig provided by Enviroprobe Service, Inc. of Mt. Laurel, New Jersey, in Reaches C, D, E and part of reach F along the bulkhead of the East River.

2.1 Utility Mark-Outs

Prior to field investigation activities, Enviroprobe contacted the New York One-Call center to mark out subsurface utilities in the work areas.

2.2 Soil Sampling and Analysis

Soil borings were advanced along bulkhead areas to a maximum depth of 20 ftbg. Soil samples were collected utilizing a 5-foot macrocore fitted with a 2-inch diameter acetate liner. Borings were advanced to depths up to 10 ftbg and 20 ftbg depending on the proposed depth of excavation in the work location.

Soil borings were field screened using a photoionization detector (PID) and readings were recorded on boring logs. All PID readings collected during the field sampling events were 0.0 parts per million (ppm).

One grab sample and one composite soil sample were collected from each boring and submitted for laboratory analysis. Table 1 shows boring and grab sampling depths.

Soil samples were placed into laboratory supplied sample jars and properly labeled. The soil samples were stored in a cooler with ice to preserve the samples at approximately 4° Celsius prior to and during sample shipment. A chain-of-custody was prepared prior to sample shipment

Soil samples were delivered in coolers to Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut (NYSDOH ELAP # 11301) for analysis. All soil samples collected were analyzed for the following parameters:

- 40 CFR Part 261, Subpart C (Characteristics of Hazardous Waste)
- Ignitability (Method 1010);
- Corrosivity (Method 9045C);
- Reactivity (Chapter 7.3.2);
- Toxicity Characteristic Leaching Procedure (TCLP) VOC (Method 1311/8260);
- TCLP SVOC (Method 1311/8270);
- TCLP Pesticides (Method 1311/8081) (if required by the selected disposal facility);

- TCLP Herbicides (Method 1311/8151A);
- TCLP Metals (Method 1311/6010B/7470A);
- Polychlorinated biphenyls (PCBs) (Method 8082);
- Pesticides (Method 8081);
- Total Petroleum Hydrocarbons (TPH) (Method 8015);
- Extractable Petroleum Hydrocarbons (EPH);
- Target Analyte List Metals (TAL) (Method 6010);
- Target Compound List (TCL) VOCS (Method 8260) and SVOCS (Method 8270)

2.3 Analytical Results

Analytical laboratory results indicated several samples contained compounds in concentrations exceeding the NYSDEC Part 375 CSCOs and one sample (BH5) contained a concentration of lead exceeding the RCRA Hazardous Waste Characteristic Regulatory Level. Compound exceedances are shown on Tables 2 and 3.

Comments:

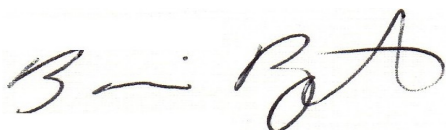
- Analytical results compared to applicable criteria are presented in Tables 2 and 3. A number of boring locations (BH10, BH12, BH13, BH22, BH23, BH24, BH25, BH27, BH28, BH29, BH30, BH31, BH32, BH36, BH37, BH38, BH40, BH42, BH43, BH44, BH45, BH46, BH54, BH55, BH58, BH60) exhibited exceedances of CSCOs. Exceedances of CSCOs are highlighted in yellow on Table 2. Material exceeding CSCOs should not be reused as backfill on-site and should be transported off-site for disposal at a permitted disposal facility.
- TCLP Lead exceeded the RCRA Hazardous Waste Characteristic Regulatory Level of 5 milligrams per liter (mg/L) in soil sample BH5 at a concentration of 5.11 mg/L. TCLP results are summarized in Table 3.
- Location BH22 exhibited a total lead concentration of 211 parts per million (ppm) and a TCLP lead concentration of 12.7 mg/L. A TCLP result as high as 12.7 with total lead at only 211 ppm is atypical. Phoenix Labs re-analyzed this sample for total lead and TCLP lead. Total lead was detected at 1230 ppm and TCLP lead was detected at 1.04 mg/L. Due to the inconsistency of lead results at location BH22, the location was resampled on March 25, 2022. The soil sample is currently being analyzed for TCLP lead and total lead to verify the lead concentration is non-hazardous. Laboratory analysis is pending and will be provided upon completion.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Based on review and evaluation of analytical data and field screening, the following findings, conclusions and recommendations are presented:

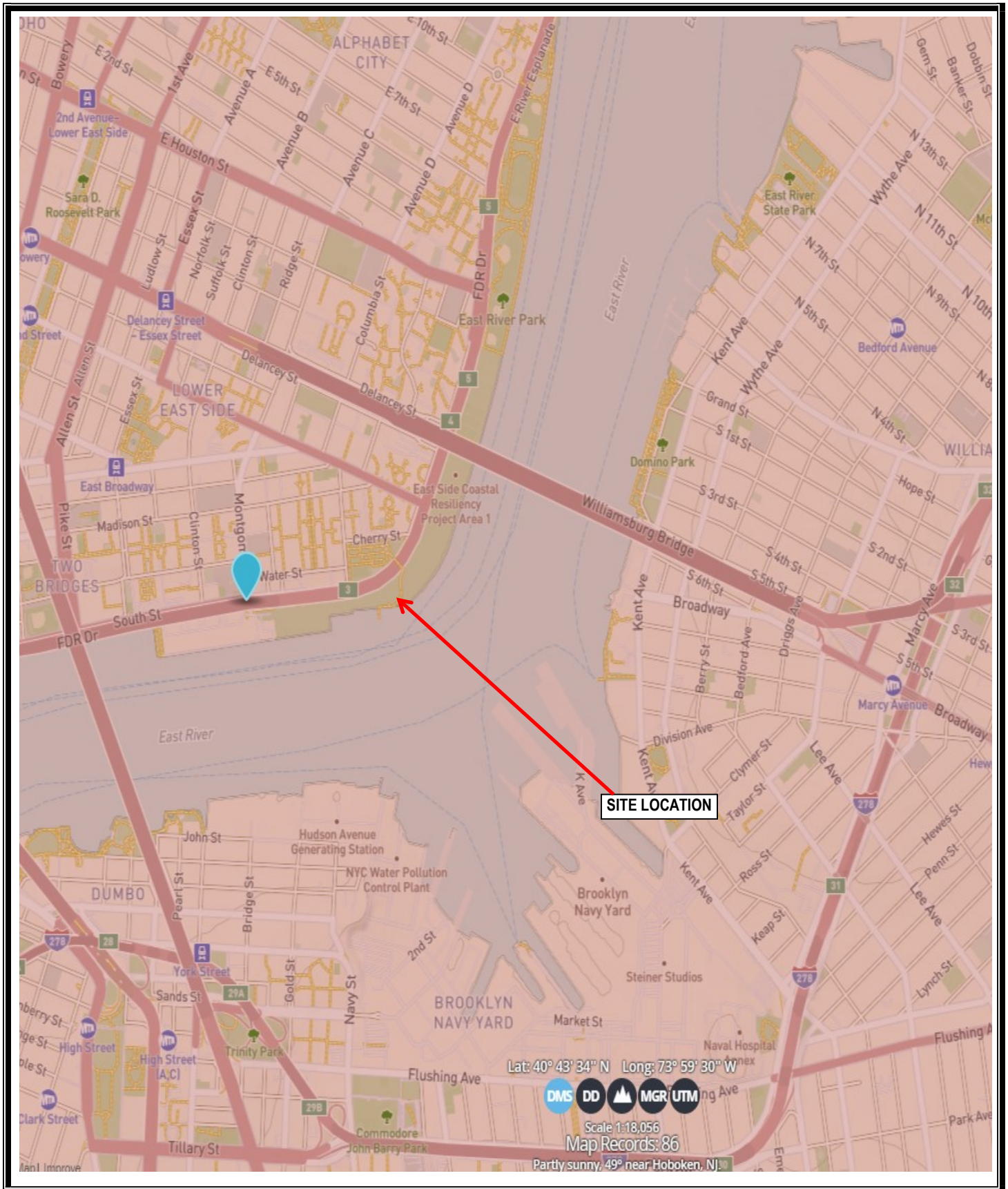
- Laboratory analytical results indicated soil sample BH5 exhibited evidence of hazardous waste characteristics for toxicity as discussed above and identified in Table 3. Upon commencement of the infrastructure improvement activities, the material should be properly disposed of at a USEPA approved RCRA-Part B TSDF facility. TCLP lead and barium concentrations detected in soil samples may be attributed to the presence of historic fill material in the subsurface.
- Contamination was found in a number of soil samples mentioned above and shown on Tables 2 and 3. Material exceeding CSCOs should not be used as backfill on-site and should be transported to a licensed, permitted facility for disposal pursuant to federal, state and local regulations. Non-native material such as historic fill should be transported off-site for disposal pursuant to Federal, State and local regulations.
- The soil analytical results should be presented to disposal facilities for classification and acceptance in accordance with the individual permit requirements and State and Federal regulations.

Report prepared by:



Brian Pendergast
Environmental Project Manager

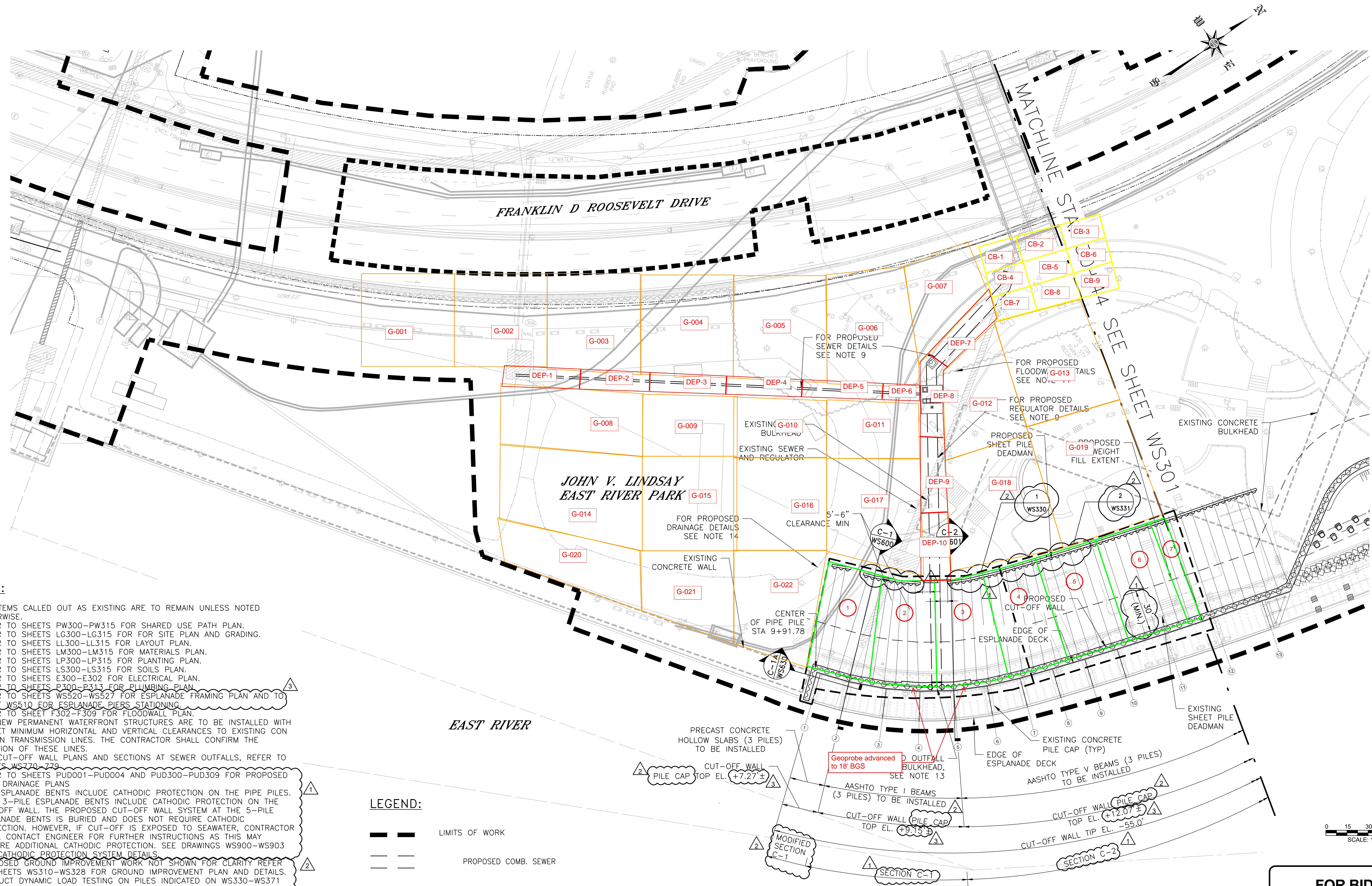
FIGURES



Site Location Map
East Side Coastal Resiliency
From Montgomery Street to 15th Street
New York, NY

AES Project No. 0897
 Field Sampling Summary Report
 NTS Not to Scale

Figure 1
 American Environmental
 Solutions, Inc.

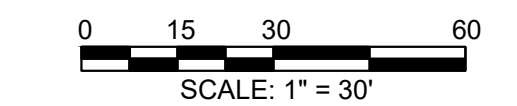


NOTES:

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR FOR SITE PLAN AND GRADING.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.
10. REFER TO SHEETS WS520-WS527 FOR ESPLANADE FRAMING PLAN AND TO SHEET WS310 FOR ESPLANADE PIERS STATIONING.
11. REFER TO SHEET F302-F309 FOR FLOODWALL PLAN.
12. ALL NEW PERMANENT WATERFRONT STRUCTURES ARE TO BE INSTALLED WITH 2 FEET MINIMUM HORIZONTAL AND VERTICAL CLEARANCES TO EXISTING CON EDISON TRANSMISSION LINES. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF THESE LINES.
13. FOR CUT-OFF WALL PLANS AND SECTIONS AT SEWER OUTFALLS, REFER TO SHEETS WS770-779.
14. REFER TO SHEETS PUD001-PUD004 AND PUD300-PUD309 FOR PROPOSED PARK DRAINAGE PLANS.
15. ALL ESPLANADE BENTS INCLUDE CATHODIC PROTECTION ON THE PIPE PILES. ONLY 3-PILE ESPLANADE BENTS INCLUDE CATHODIC PROTECTION ON THE CUT-OFF WALL. THE PROPOSED CUT-OFF WALL SYSTEM AT THE 5-PILE ESPLANADE BENTS IS BURIED AND DOES NOT REQUIRE CATHODIC PROTECTION. HOWEVER, IF CUT-OFF IS EXPOSED TO SEAWATER, CONTRACTOR SHALL CONTACT ENGINEER FOR FURTHER INSTRUCTIONS AS THIS MAY REQUIRE ADDITIONAL CATHODIC PROTECTION. SEE DRAWINGS WS900-WS903 FOR CATHODIC PROTECTION SYSTEM DETAILS.
16. PROPOSED GROUND IMPROVEMENT WORK NOT SHOWN FOR CLARITY REFER TO SHEETS WS310-WS328 FOR GROUND IMPROVEMENT PLAN AND DETAILS.
17. CONDUCT DYNAMIC LOAD TESTING ON PILES INDICATED ON WS330-WS371 DURING INSTALLATION IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE AND ASTM D4945. DYNAMIC TESTING TO INCLUDE PDA TESTING AND CAPWAP ANALYSES FOR INITIAL DRIVING AND RESTRIKING. TESTING TO BE PERFORMED TO 200% OF THE PILE ALLOWABLE COMPRESSION LOADS OR THE PILE ULTIMATE COMPRESSION LOADS PROVIDED. FOR BID ITEM NUMBER, USE F5CB-554.24.05.01 FOR DYNAMIC PILE LOAD TESTING.
18. WATERFRONT LIGHT POLE FOUNDATIONS NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL DRAWINGS (LL500 SERIES SHEETS) FOR LOCATIONS AND DWGS WS903A THRU WS903J FOR DETAILS. COORDINATE LIGHT POLE FOUNDATIONS WITH CIP CONCRETE CONSTRUCTION.

LEGEND:

- LIMITS OF WORK
- PROPOSED COMB. SEWER



FOR BID

SUBMITTED DATE: 02/21/2020

NO.	DATE	DESCRIPTIONS	BY	APPR'D
3	7/16/2020	DRAWING REVISED	MKS	DF
2	6/26/2020	DRAWING REVISED	BP	DF
1	5/28/2020	DRAWING REVISED	JM	DF

FINAL DESIGN SUBMITTED BY:

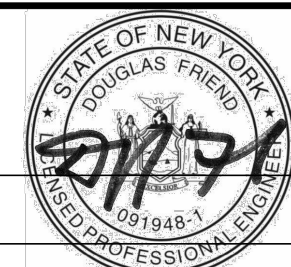


FINAL DESIGN PREPARED BY:



SIGNATURE

DATE



CITY OF NEW YORK
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DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

CH2M
DRAWN BY

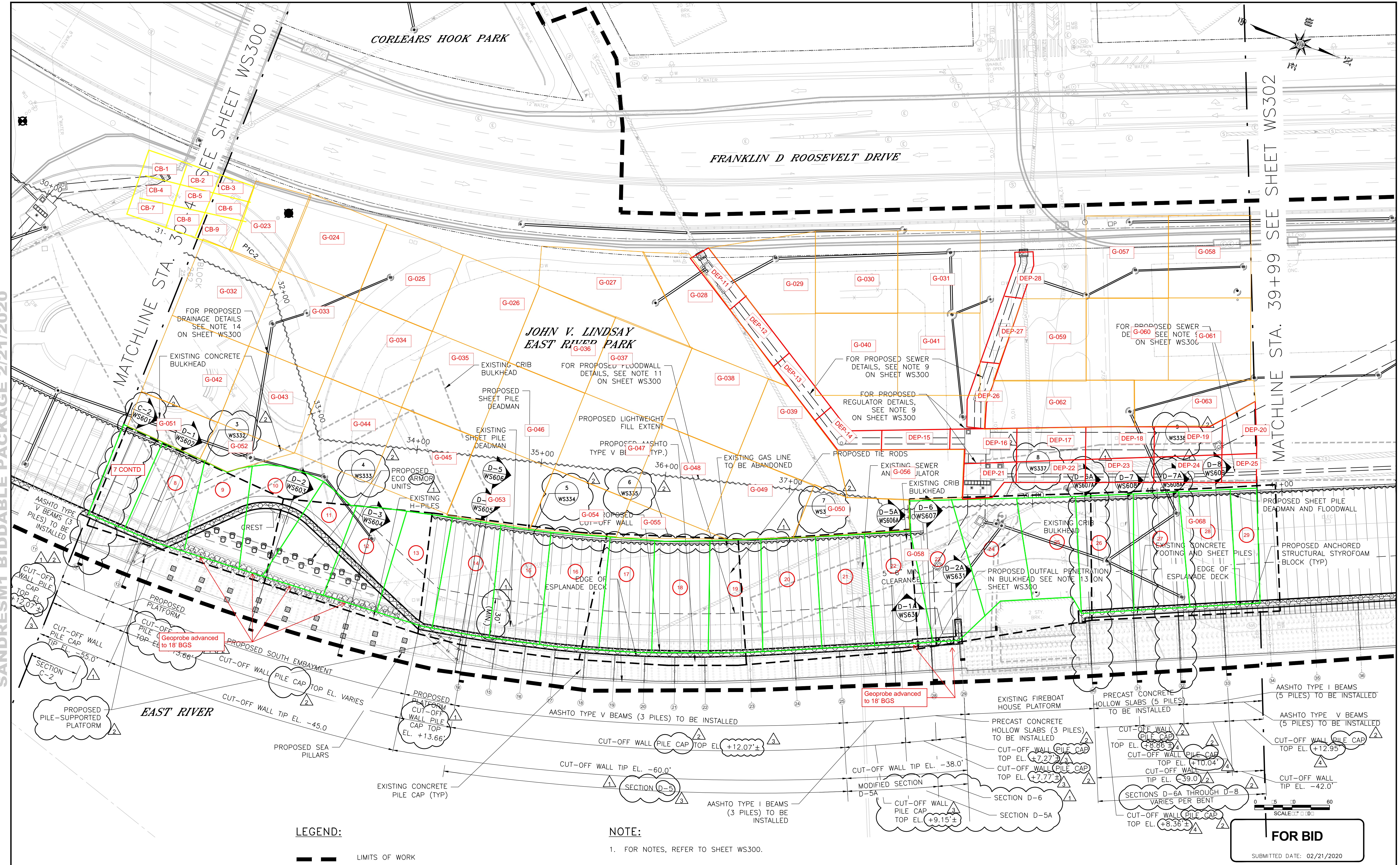
WATERFRONT STRUCTURAL PLAN
SEGMENT 1 - REACH C
STA. 23+82 - 30+44

SANDRESM1-WS300-03.DWG
CADD FILE

CAPITAL PROJECT NO. SANDRESM1 2/21/20 SHEET 726 OF 2791 WS300

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

SANDRESM1 BIDDABLE PACKAGE 2/21/2020



LEGEND:

--- LIMITS OF WORK

--- PROPOSED COMB. SEWER

NOTE:

1. FOR NOTES, REFER TO SHEET WS300.

FOR BID

SUBMITTED DATE: 02/21/2020

NO.	DATE	DESCRIPTIONS	BY	APPR'D
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3	7/16/2020	DRAWING REVISED	MKS	DF
2	6/26/2020	DRAWING REVISED	BD	DF
1	5/28/2020	DRAWING REVISED	JM	DF

FINAL DESIGN SUBMITTED BY:

AKRF KSE

The AKRF-KSE JV

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CH2M HILL NEW YORK, INC.
NAME OF CONSULTANT

SIGNATURE:

DATE:

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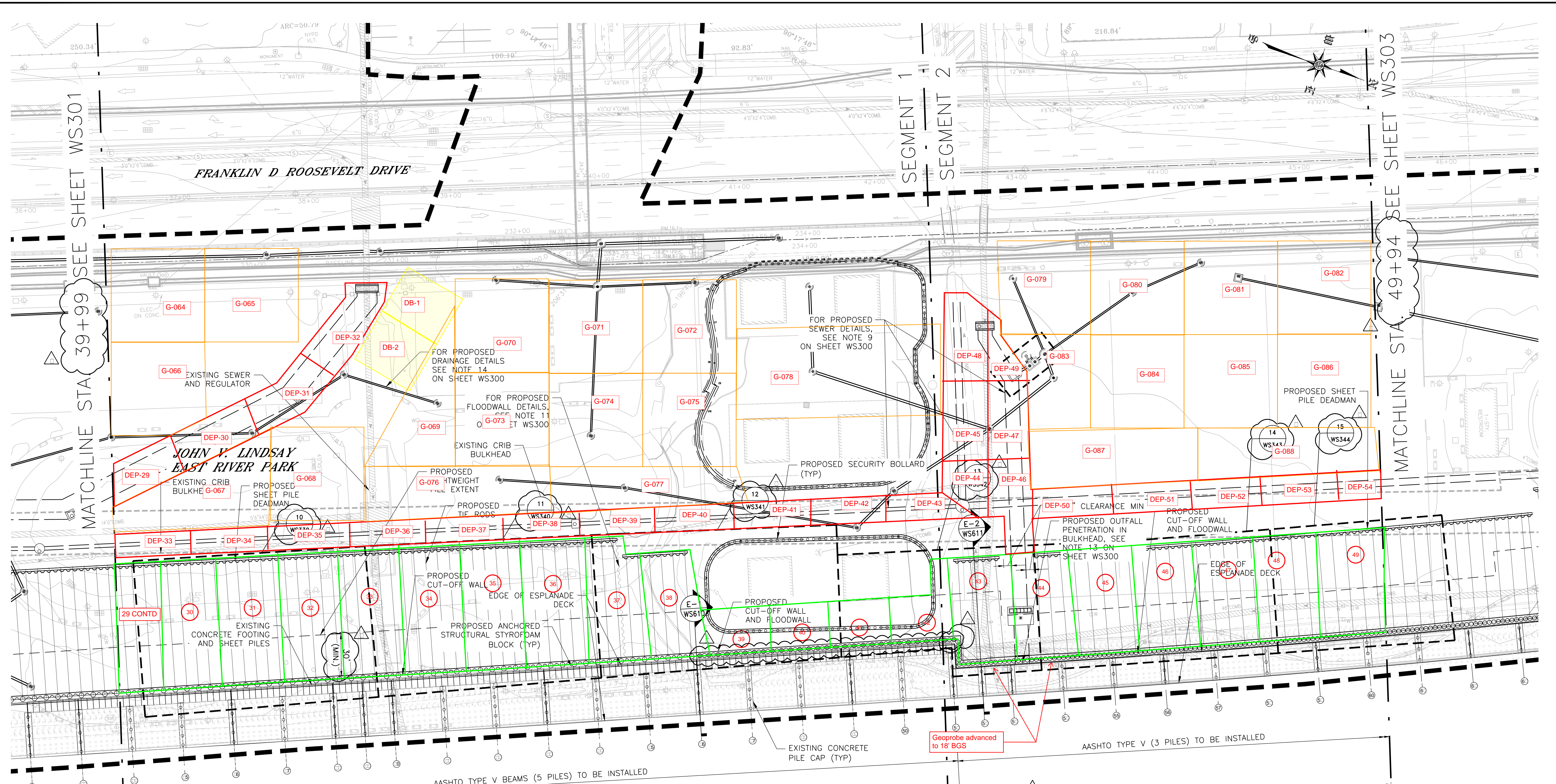
WATERFRONT STRUCTURAL PLAN
SEGMENT 1 - REACH D
STA. 30+44 - 39+99

CH2M DRAWN BY: _____
SANDRESM1-WS301-04.DWG
CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 2/21/20 SHEET 727 OF 2791 WS301

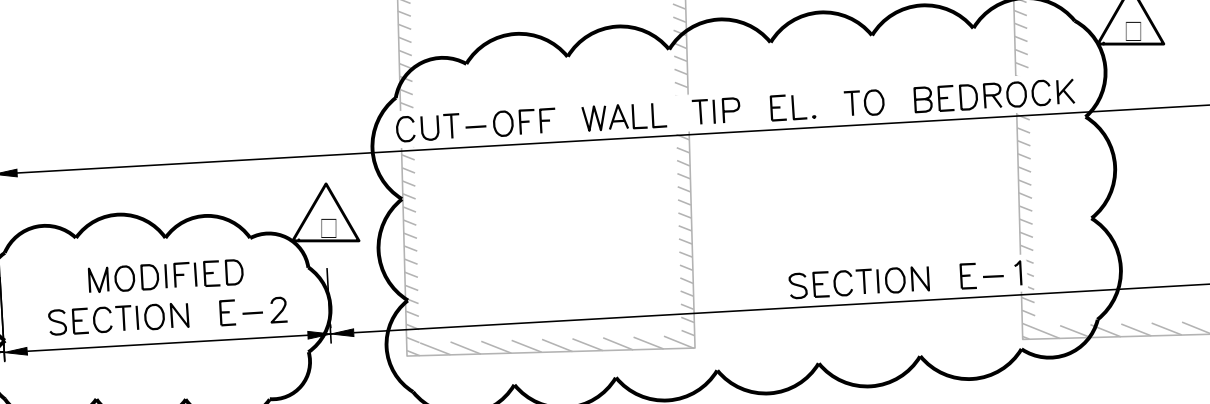
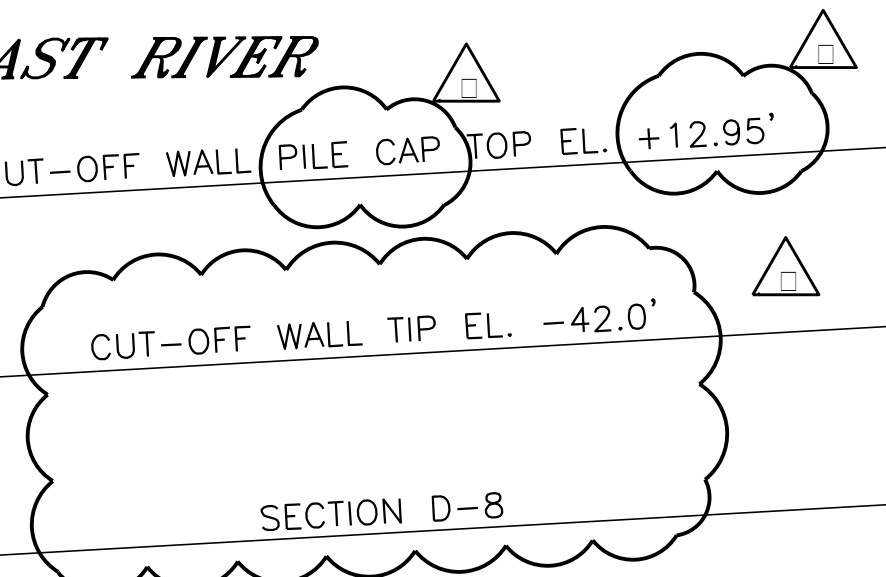
SANDRESM1 BIDDABLE PACKAGE 2/21/2020



MATCHLINE STA. 39+99 SEE SHEET WS301

MATCHLINE STA. 49+94 SEE SHEET WS303

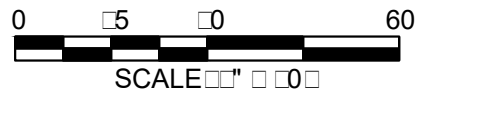
SEGMENT 1
SEGMENT 2



LEGEND:
--- LIMITS OF WORK
--- PROPOSED COMB. SEWER

NOTE:
1. FOR NOTES, REFER TO SHEET WS300.

FOR BID
SUBMITTED DATE: 02/21/2020



NO.	DATE	DESCRIPTIONS	BY	APPR'D
4	4/7/2021	SANDRESM1 BULLETIN	JM	DF
3	7/16/2020	DRAWING REVISED	MKS	DF
2	6/26/2020	DRAWING REVISED	BP	DF
1	5/28/2020	DRAWING REVISED	JM	DF

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 2/21/20 SHEET 728 OF 2791 WS302

FINAL DESIGN SUBMITTED BY:
AKRF KSE
The AKRF-KSE JV

FINAL DESIGN PREPARED BY:
ch2m
CH2M HILL NEW YORK, INC.
NAME OF CONSULTANT

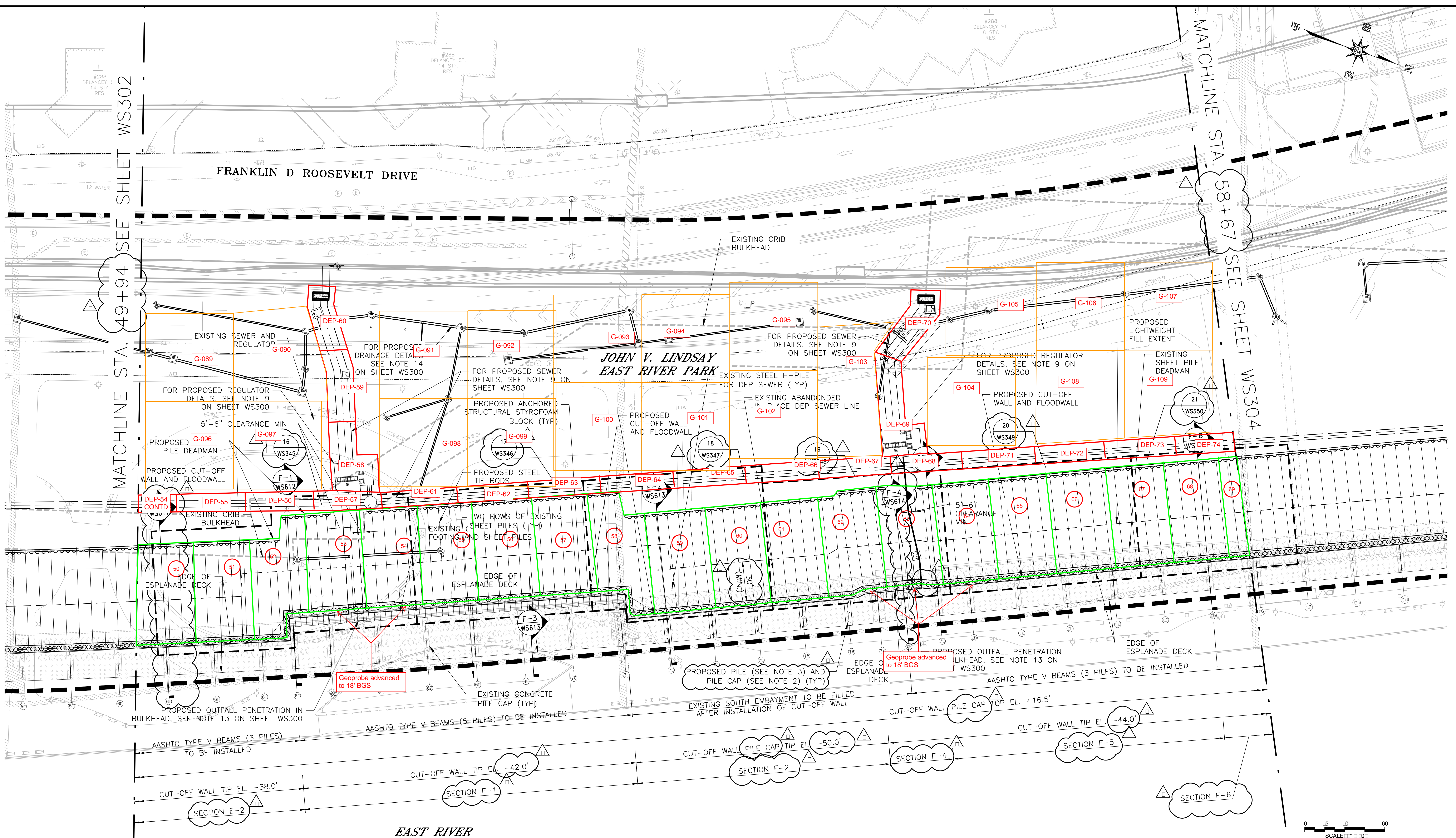
SIGNATURE
DATE

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DIVISION OF INFRASTRUCTURE
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WATERFRONT STRUCTURAL PLAN
SEGMENT 1 - REACH E
STA. 39+99 - 49+94

CH2M DRAWN BY
SANDRESM1-WS302-04.DWG
CADD FILE

SANDRESM1 BIDDABLE PACKAGE 2/21/2020



MATCHLINE STA. 49+94 SEE SHEET WS302

MATCHLINE STA. 58+67 SEE SHEET WS304

LEGEND:

--- LIMITS OF WORK

--- PROPOSED COMB. SEWER

NOTE:

- FOR NOTES, REFER TO SHEET WS300.
- REFER TO SHEET WS511 FOR PROPOSED PILE CAP DETAILS.
- REFER TO SHEETS WS500 AND WS501 FOR PROPOSED PILE DETAILS.

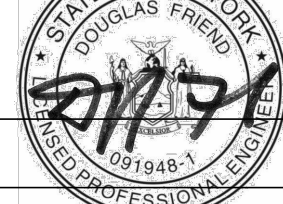
FOR BID

SUBMITTED DATE: 02/21/2020

NO.	DATE	DESCRIPTIONS	BY	APPR'D
4	4/7/2021	SANDRESM1 BULLETIN	JM	DF
3	7/16/2020	DRAWING REVISED	MKS	DF
2	6/26/2020	DRAWING REVISED	BP	DF
1	5/28/2020	DRAWING REVISED	JM	DF

FINAL DESIGN SUBMITTED BY:
AKRF KSE
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:
ch2m
 CH2M HILL NEW YORK, INC.
 NAME OF CONSULTANT

SIGNATURE: 
 DATE: _____

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WATERFRONT STRUCTURAL PLAN
 SEGMENT 2 - REACH F
 STA. 49+94 - 58+67
 CH2M DRAWN BY: _____
 SANDRESM1-WS303-04.DWG
 CADD FILE

INSTALLATION OF
 EAST SIDE COASTAL RESILIENCY
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 2/21/20 SHEET 729 OF 2791 WS303

TABLES

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO 15TH STREET, MANHATTAN
 NYCDDC SANDRESM1
 IPC RESILIENCY PARTNERS
 TABLE 1: BORING AND GRAB SAMPLE DEPTHS

REACH	BORING LOCATION	BORING DEPTH	DATE	NOTES	VOC GRAB SAMPLE DEPTH
REACH C	BH1	10'	2/9/2022		3'
	BH2	18'	2/9/2022		14.5'
	BH3	18'	2/9/2022		3'
	BH4	10'	2/9/2022		4.5'
	BH5	10'	2/9/2022		6'
	BH6	10'		Not accessible	
	BH7	10'	2/9/2022		10'
REACH D	BH8	9'	2/9/2022	Refusal at 9'	3'
	BH9	18'	2/9/2022		9.5'
	BH10	18'	2/9/2022		14.5'
	BH11	18'	2/9/2022		14.5'
	BH12	18'	2/9/2022	Water at 15'	14.5'
	BH13	10'	2/10/2022		1'
	BH14	10'	2/10/2022		9.5'
	BH15	10'	2/10/2022		9.5'
	BH16	10'	2/10/2022		5'
	BH17	10'	2/10/2022		6'
	BH18	10'	2/10/2022		1'
	BH19	10'	2/10/2022		9'
	BH20	10'	2/10/2022		9.5'
	BH21	10'	2/10/2022		8'
	BH22	20'	2/10/2022		9.5'
	BH23	20'	2/10/2002		10'
	BH24	10'	2/10/2022		3'
BH25	10'	2/10/2022		5'	
BH26	10'	2/10/2022		9.5'	
BH27	10'	2/10/2022		4'	
BH28	10'	2/10/2022		3'	
BH29	10'	2/10/2022		5'	
REACH E	BH30	10'	2/10/2022		9.5'
	BH31	10'	2/10/2022		5'
	BH32	10'	2/10/2022		4.5'
	BH33	10'	2/11/2022		5'
	BH34	10'	2/11/2022		5'
	BH35	10'	2/11/2022		10'
	BH36	10'	2/11/2022	0-4'	4'
	BH37	10'	2/11/2022	0-4'	2'
	BH38	10'	2/11/2022	0-1'	9'
	BH39	10'	2/11/2022		1'
	BH40	10'	2/11/2022		9.5'
	BH41	10'		Not accessible	
	BH42	10'	2/11/2022		6'
	BH43	10'	2/11/2022		4'
	BH44	20'	2/11/2022		11'
	BH45	20'	2/11/2022		1'
	BH46	20'	2/11/2022		10'
BH47	20'	2/11/2022		1'	
BH48	20'	2/11/2022	Test pit sample		
BH49	20'	2/11/2022		9.5'	
REACH F	BH50	20'	2/11/2022		2'
	BH51	20'	2/11/2022		10'
	BH52	20'	2/11/2022		2'
	BH53	20'	2/11/2022		14.5'
	BH54	20'	2/11/2022		15'
	BH55	20'	2/11/2022		9.5'
	BH56	20'	2/11/2022		5'
	BH57	20'	2/11/2022		10'
	BH58	20'	2/11/2022		8'
	BH59	20'	2/11/2022	Refusal at 3'	3'
	BH60	20'	2/11/2022		9.5'
	BH61	20'	2/11/2022		9.5'

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS
TABLE 2: SUMMARY OF SOIL ANALYSIS

Parameter	Compounds Detected	Unit	NYSDEC Part 375 Commercial Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives	BH1 2/9/2022	BH2 2/9/2022	BH3 2/9/2022	BH4 2/9/2022	BH5 2/9/2022	BH7 2/9/2022	BH8 2/9/2022	BH9 2/9/2022	BH10 2/9/2022	BH11 2/9/2022	BH12 2/9/2022	BH13 2/10/2022
Mercury 7471	Mercury	ppm	2.8	0.81	1.31	1.15	0.9	1.01	0.44	0.42	2.28	0.47	0.3	0.74	0.58	0.52
PCBs	None Detected	ppm	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides	4,4-DDD	ppm	92	13	ND	ND	ND	ND	ND	ND	ND	0.0032	ND	ND	ND	ND
	4,4-DDE	ppm	62	8.9	ND	ND	0.0056	ND	ND	ND	ND	0.015	ND	ND	0.04	ND
	4,4-DDT	ppm	47	7.9	ND	ND	0.0031	ND	0.0046	ND	ND	0.018	0.0034	ND	0.072	ND
TAL Metals	Aluminum	ppm	NS	NS	11,200	3780	7430	8850	6180	16,000	11,500	10,500	7,580	9,610	8,820	8120
	Antimony	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8
	Arsenic	ppm	16	16	4.45	1.13	3.79	5.18	7.49	4.13	3.57	3.46	4.62	7.79	4.69	10.3
	Barium	ppm	400	400	105	22.2	62.2	105	184	103	133	96.6	124	141	323	190
	Beryllium	ppm	590	72	0.48	ND	0.35	0.49	0.39	0.66	0.49	0.48	0.39	0.53	0.49	0.58
	Cadmium	ppm	9.3	4.3	1.65	0.78	1.2	1.41	1.8	1.76	1.49	1.45	1.49	1.77	1.61	2.15
	Calcium	ppm	NS	NS	22,600	1,290	9,750	9,950	14,100	3200	8180	2600	7080	17,900	10,900	8180
	Chromium	ppm	1500	180	16.4	8.36	17	17.7	20.6	24.9	14.6	19.3	16	22.2	19.8	15.9
	Cobalt	ppm	NS	NS	7.72	4.23	5.2	7.87	7.37	12.5	5.73	12.5	8.15	7.32	7.58	9.16
	Copper	ppm	270	270	54.9	28.5	25	53.2	49.8	32.2	25.3	30.2	91.9	48.7	41.4	64
	Iron	ppm	NS	NS	21,200	8870	13,500	16,400	21,600	22,700	14,000	16,400	19,200	20,300	16,400	28,600
	Lead	ppm	1000	400	252	59	80.9	365	672	77.9	165	137	195	208	473	335
	Manganese	ppm	10,000	2000	403	101	221	340	378	325	379	1000	311	367	345	456
	Magnesium	ppm	NS	NS	3450	1890	3890	2890	3830	4210	2610	10,300	3520	4740	4420	4110
	Nickel	ppm	310	310	15.9	11.5	13.6	22.5	16.8	18.6	13.6	44.2	16.7	25.1	15.7	18.2
	Sodium	ppm	NS	NS	702	368	188	281	178	178	254	569	169	354	258	230
	Potassium	ppm	NS	NS	1870	776	1000	1460	1350	2330	976	1160	1600	1310	1200	1240
Vanadium	ppm	NS	NS	22.3	13.8	22.5	24.2	23.9	40.5	20.5	26.4	52.2	28.2	30.2	25.3	
Zinc	ppm	10,000	10,000	103	40.6	68.5	119	185	93	117	98.4	132	134	293	224	
Semi-Volatile Organic Compounds	Acenaphthene	ppm	500	100	ND	ND	ND	ND	.29	ND	ND	ND	.36	ND	ND	ND
	Acenaphthylene	ppm	500	100	ND	ND	ND	ND	ND	ND	ND	ND	.28	ND	ND	ND
	Anthracene	ppm	500	100	ND	ND	ND	ND	.37	.35	.48	ND	1.9	ND	ND	.5
	Benz(a)anthracene	ppm	5.6	1	.70	.45	.50	.50	.62	1.1	1.1	ND	6.8	.98	1.6	1.5
	Benzo(a)pyrene	ppm	1	1	.65	.41	.69	.47	.5	.97	1.0	ND	5.2	.92	1.4	1.2
	Benzo(b)fluoranthene	ppm	5.6	1	.54	.35	.69	.43	.45	.79	.83	ND	5.3	.98	1.3	1.1
	Benzo(ghi)perylene	ppm	500	100	.39	ND	.46	.28	.29	.52	.55	ND	2.7	.65	.71	.62
	Benzo(k)fluoranthene	ppm	56	3.9	.56	.34	.63	.39	.46	.81	.80	ND	3.9	.71	1.3	1.1
	Chrysene	ppm	56	3.9	.71	.46	.80	.54	.6	1.1	1.1	ND	8.3	.97	1.4	1.5
	Dibenz(a,h)anthracene	ppm	0.56	.33	ND	ND	ND	ND	ND	ND	ND	ND	.93	.19	.2	ND
	Dibenzofuran	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	.35	ND	ND	ND
	Fluoranthene	ppm	500	100	1.5	.99	.86	.86	1.5	2.1	2.3	ND	.18	2	3.4	3.5
	Fluorene	ppm	500	100	ND	ND	ND	ND	.29	ND	ND	ND	.49	ND	ND	ND
	Indeno(1,2,3-cd)pyrene	ppm	5.6	0.5	.46	ND	.54	.32	.33	.63	.67	ND	3.3	.66	.88	.77
	Phenanthrene	ppm	500	100	.94	.99	.56	1.0	1.7	1.7	1.8	ND	10	.84	1.7	2.9
Pyrene	ppm	500	100	1.3	.89	.69	1.0	1.2	2.0	2.2	ND	15	1.7	2.6	3.2	
Cyanide	Cyanide	ppm	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds	None Detected	ppm	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPH	>C28-C40	ppm	NS	NS	ND	ND	ND	ND	ND	16	ND	ND	120	ND	23	ND
	C9-C28	ppm	NS	NS	ND	ND	ND	ND	ND	57	ND	ND	210	14	27	ND
	Total EPH	ppm	NS	NS	ND	ND	ND	ND	ND	73	ND	ND	330	14	50	ND
TPH	DRO	ppm	NS	NS	ND	82	ND	ND	ND	ND	ND	ND	ND	ND	74	ND
	GRO	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

ND Not detected

NS No regulatory criteria available

Green highlighted concentrations exceed NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives

Yellow highlighted concentrations exceed NYSDEC Part 375 Restricted Residential and Commercial Soil Cleanup Objectives

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS
TABLE 2 (cont.): SUMMARY OF SOIL ANALYSIS

Parameter	Compounds Detected	Unit	NYSDEC Part 375 Commercial Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives	BH14 2/10/2022	BH15 2/10/2022	BH16 2/10/2022	BH17 2/10/2022	BH18 2/10/2022	BH19 2/10/2022	BH20 2/10/2022	BH21 2/10/2022	BH22 2/10/2022	BH23 2/10/2022	BH24 2/10/2022	BH25 2/10/2022
Mercury 7471	Mercury	ppm	2.8	0.81	0.2	0.13	0.46	ND	0.49	0.04	0.24	1.59	0.3	13.7	0.38	1.33
PCBs	None Detected	ppm	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides	4,4-DDD	ppm	92	13	ND	ND	ND	ND	0.0061	ND	ND	ND	ND	ND	0.004	ND
	4,4-DDE	ppm	62	8.9	0.0039	ND	0.03	ND	0.016	ND	ND	ND	0.04	ND	0.0039	0.0072
	4,4-DDT	ppm	47	7.9	ND	ND	0.018	ND	0.007	ND	ND	ND	0.04	ND	ND	0.016
TAL Metals	Aluminum	ppm	NS	NS	10,600	20,000	10,000	1,130	3930	7330	9880	8810	7380	7770	10,500	5,180
	Antimony	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	ND
	Arsenic	ppm	16	16	5.43	14.5	10.1	3.52	15.7	5.48	4.84	5.33	6.23	2.37	10.7	2.05
	Barium	ppm	400	400	129	135	101	15.3	33.2	46.8	61.6	92.4	85.3	106	249	115
	Beryllium	ppm	590	72	0.6	0.87	0.56	ND	ND	ND	0.44	0.44	0.38	0.42	0.57	0.32
	Cadmium	ppm	9.3	4.3	1.45	2.2	1.88	ND	1.07	2.04	2.03	1.36	1.31	1.17	1.81	0.8
	Calcium	ppm	NS	NS	3260	10,000	2030	1530	4860	4460	4090	2010	2830	3380	23,200	23,700
	Chromium	ppm	1500	180	21.8	24.5	26.1	2.59	9.99	6.09	15.5	32.2	18.1	16.2	23.6	12.1
	Cobalt	ppm	NS	NS	7.32	11.6	6.42	5.17	6.79	17.3	12.8	8.28	5.52	7.37	11	4.95
	Copper	ppm	270	270	133	36.4	52.9	23.8	38.4	131	90.5	40.6	35.2	26.3	51.2	29.4
	Iron	ppm	NS	NS	17,300	26,700	13,700	4,560	16,200	33,900	25,300	16,400	12,000	15,400	21,400	10,100
	Lead	ppm	1000	400	169	37.6	234	15.1	44.8	41	72.5	137	1230	102	340	79.6
	Manganese	ppm	10,000	2000	254	473	222	73.7	307	353	378	334	291	294	333	197
	Magnesium	ppm	NS	NS	3570	3540	1780	660	2670	4650	3670	2970	1880	3070	11,600	9,650
	Nickel	ppm	310	310	17.4	34.6	23.1	26.5	11.6	12.7	17.7	39.8	18.9	19.7	24.6	10.2
	Sodium	ppm	NS	NS	250	1050	94	147	188	479	235	252	85.2	336	567	254
	Potassium	ppm	NS	NS	1500	2380	618	279	669	1580	924	1050	692	1300	2860	1510
Vanadium	ppm	NS	NS	31.7	49.1	57.4	52.4	38.8	133	91.5	31.1	35.8	27.8	33	25.4	
Zinc	ppm	10,000	10,000	157	109	135	17.4	75.1	222	305	113	150	61.8	196	98.7	
Semi-Volatile Organic Compounds	Acenaphthene	ppm	500	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	.28
	Acenaphthylene	ppm	500	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Anthracene	ppm	500	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	.36	.33
	Benz(a)anthracene	ppm	5.6	1	.28	ND	ND	ND	ND	ND	ND	.75	.74	.72	1.3	3.7
	Benzo(a)pyrene	ppm	1	1	.28	ND	ND	ND	ND	ND	ND	.82	.63	.7	1.5	3.7
	Benzo(b)fluoranthene	ppm	5.6	1	ND	ND	ND	ND	ND	ND	ND	.81	.64	.58	1.3	3.4
	Benzo(ghi)perylene	ppm	500	100	ND	ND	ND	ND	ND	ND	ND	.54	.37	.46	.94	2
	Benzo(k)fluoranthene	ppm	56	3.9	ND	ND	ND	ND	ND	ND	ND	.73	.61	.56	1.2	2.8
	Bis(2-ethylhexyl)phthalate	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	.34	ND	ND
	Chrysene	ppm	56	3.9	.3	ND	ND	ND	.33	ND	ND	.81	.74	.72	1.4	3.8
	Dibenz(a,h)anthracene	ppm	0.56	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	.23	.52
	Dibenzofuran	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Fluoranthene	ppm	500	100	.5	ND	.26	.44	ND	.29	ND	1.5	1.4	1.9	2.9	8.1
	Fluorene	ppm	500	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Indeno(1,2,3-cd)pyrene	ppm	5.6	0.5	ND	ND	ND	ND	ND	ND	ND	.58	.42	.5	1	2.4
Phenanthrene	ppm	500	100	.35	ND	ND	ND	ND	ND	ND	.92	.95	1.4	1.3	4.1	
Pyrene	ppm	500	100	.47	ND	ND	.47	ND	.27	ND	1.4	1.1	1.7	2.8	7.6	
Cyanide	Cyanide	ppm	27	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds	Carbon disulfide	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0063	ND	ND
EPH	>C28-C40	ppm	NS	NS	ND	ND	130	ND	ND	ND	12	15	ND	ND	ND	ND
	C9-C28	ppm	NS	NS	ND	ND	53	19	ND	14	15	24	ND	91	ND	90
	Total EPH	ppm	NS	NS	ND	ND	183	19	ND	14	27	39	ND	91	ND	90
TPH	DRO	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	GRO	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

ND Not detected

NS No regulatory criteria available

Green highlighted concentrations exceed NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives

Yellow highlighted concentrations exceed NYSDEC Part 375 Restricted Residential and Commercial Soil Cleanup Objectives

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS
TABLE 2 (cont.): SUMMARY OF SOIL ANALYSIS

Parameter	Compounds Detected	Unit	NYSDEC Part 375 Commercial Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives	BH38 2/11/2022	BH39 2/11/2022	BH40 2/11/2022	BH42 2/11/2022	BH43 2/11/2022	BH44 2/11/2022	BH45 2/11/2022	BH46 2/11/2022	BH47 2/11/2022	BH48 2/11/2022	BH49 2/11/2022
Mercury 7471	Mercury	ppm	2.8	0.81	2.61	0.54	0.44	0.35	0.77	0.54	0.03	0.4	0.21	0.34	0.71
PCBs	None Detected	ppm	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides	4,4' -DDD	ppm	92	13	ND	ND	ND	ND	ND	0.0067	ND	ND	ND	0.0061	ND
	4,4' -DDE	ppm	62	8.9	ND	ND	ND	ND	0.024	0.012	ND	ND	ND	0.011	0.0078
	4,4' -DDT	ppm	47	7.9	ND	0.0056	0.0052	ND	0.012	0.021	0.0032	ND	ND	0.0064	ND
	a-BHC	ppm	3.4	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	a-Chlordane	ppm	24	4.2	ND	ND	ND	ND	0.014	ND	ND	ND	ND	ND	ND
	Aldrin	ppm	0.68	0.097	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlordane	ppm	NS	NS	ND	ND	ND	ND	0.057	ND	ND	ND	ND	ND	ND
	d-BHC	ppm	500	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dieldrin	ppm	1.4	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	g-Chlordane	ppm	NS	NS	ND	ND	ND	ND	0.0053	ND	ND	ND	ND	ND	ND
	Heptachlor	ppm	15	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TAL Metals	Aluminum	ppm	NS	NS	7500	6550	5430	6510	7120	5940	8820	5810	12100	6400	7770
	Arsenic	ppm	16	16	21.4	4.67	4.13	8.45	3.6	8.48	6.76	9.92	1.81	7.31	4.85
	Barium	ppm	400	400	374	65.5	416	218	129	135	348	106	82.5	41.2	
	Beryllium	ppm	590	72	0.61	ND	0.31	0.44	0.37	0.89	0.47	0.33	0.38	0.3	0.3
	Cadmium	ppm	9.3	4.3	0.6	ND	0.4	0.76	ND	0.61	0.57	1.36	ND	0.42	ND
	Calcium	ppm	NS	NS	14,000	15,900	29,000	22400	9380	7720	7230	13400	7090	19100	4040
	Chromium	ppm	1500	180	21.1	16.4	16.2	24.8	17.8	17.6	30.1	26.5	22.3	13.9	14
	Cobalt	ppm	NS	NS	678	4.72	4.99	6.74	5.74	6.03	7.61	8.4	12.7	5	4.25
	Copper	ppm	270	270	84.9	29.4	42.2	67.2	33.6	54.4	57.8	38	56.8	42.4	19.8
	Iron	ppm	NS	NS	22,300	11,100	12,400	19,600	14,400	14,900	22,700	59,300	21,200	16,300	11,500
	Lead	ppm	1000	400	2500	355	385	296	215	390	367	170	51.8	190	54.9
	Manganese	ppm	10,000	2000	241	178	215	.35	.77	.54	.03	.4	.21	.34	.71
	Magnesium	ppm	NS	NS	2450	8010	12800	9100	3710	3340	4330	6380	7930	9850	1750
	Nickel	ppm	310	310	16.2	11	14	22.5	15.5	18.6	23	20.3	28.1	12.3	9.36
	Sodium	ppm	NS	NS	519	1030	357	300	284	162	206	239	677	158	64.7
	Potassium	ppm	NS	NS	1390	1450	1540	1960	1540	958	1470	1160	5720	910	520
Vanadium	ppm	NS	NS	26.7	20.1	20.4	25.1	22.6	26.6	25.5	22.2	27.9	21.1	19.9	
Zinc	ppm	10,000	10,000	249	295	223	213	116	209	84.1	381	82.9	109	53.6	
Semi-Volatile Organic Compounds	2-Methylnaphthalene	ppm	NS	NS	ND	ND	ND	.31	.68	ND	ND	ND	ND	ND	ND
	Acenaphthene	ppm	500	100	ND	ND	ND	.5	.27	ND	ND	.8	ND	ND	ND
	Acenaphthylene	ppm	500	100	ND	ND	.6	1.4	.34	ND	2.6	ND	ND	ND	ND
	Anthracene	ppm	500	100	ND	ND	.48	1.2	.42	.38	.71	1.5	ND	ND	ND
	Benz(a)anthracene	ppm	5.6	1	.55	ND	1.5	3.1	1.1	.96	2.4	2.5	.28	.47	.49
	Benzo(a)pyrene	ppm	1	1	.57	.84	1.7	3.3	1.2	1.1	4.3	2.1	ND	.46	.42
	Benzo(b)fluoranthene	ppm	5.6	1	.54	.52	1.4	2.6	1	.89	3.4	1.8	ND	.43	.46
	Benzo(ghi)perylene	ppm	500	100	.27	.96	1.2	1.8	.69	.66	2.7	1.1	ND	.3	ND
	Benzo(k)fluoranthene	ppm	56	3.9	.5	.44	1.3	2.2	.92	.8	2.6	1.3	ND	.29	.36
	Chrysene	ppm	56	3.9	.57	ND	1.6	3.1	1.2	.98	2.4	2.4	ND	.5	.56
	Dibenz(a,h)anthracene	ppm	0.56	.33	ND	ND	.29	.46	ND	ND	.79	.32	ND	ND	ND
	Dibenzofuran	ppm	NS	NS	ND	ND	ND	.34	ND	ND	ND	.33	ND	ND	ND
	Fluoranthene	ppm	500	100	.96	.61	3.5	5.7	2.5	2.2	2.4	6	.51	1.1	.99
	Fluorene	ppm	500	100	ND	ND	ND	.58	ND	ND	ND	.63	ND	ND	ND
	Indeno(1,2,3-cd)pyrene	ppm	5.6	0.5	.35	.97	1.3	2	.79	.75	2.9	1.4	ND	.37	.28
	Napthalene	ppm	500	100	ND	ND	ND	.53	1.4	ND	.57	ND	ND	ND	ND
	Phenanthrene	ppm	500	100	.59	ND	1.5	3.2	1.1	1.4	.62	5.4	.33	.74	.45
	Pyrene	ppm	500	100	.83	.57	3.5	5.8	2.9	2.2	3	5.5	.46	.98	.9
	Cyanide	Cyanide	ppm	27	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds	Acetone	ppm	500	100	ND	ND	ND	ND	ND	0.054	ND	ND	ND	ND	ND
EPH	>C28-C40	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
	C9-C28	ppm	NS	NS	ND	ND	ND	ND	ND	29	ND	ND	ND	ND	330
	Total EPH	ppm	NS	NS	23	ND	ND	ND	ND	29	ND	ND	ND	ND	430
TPH	DRO	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	GRO	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

ND Not detected

NS No regulatory criteria available

Green highlighted concentrations exceed NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives.

Yellow highlighted concentrations exceed NYSDEC Part 375 Commercial and Restricted Residential Cleanup Objectives.

**EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS**

TABLE 3: SUMMARY OF TCLP & RCRA ANALYSIS

Parameter	Compounds Detected	Unit	Regulatory Criteria	BH1 2/9/2022	BH2 2/9/2022	BH3 2/9/2022	BH4 2/9/2022	BH5 2/9/2022	BH7 2/9/2022	BH8 2/9/2022	BH9 2/9/2022	BH10 2/9/2022	BH11 2/9/2022	BH12 2/9/2022	BH13 2/10/2022
RCRA Characteristics	pH	pH units	<2 or >12.5	8.11	7.96	8.3	7.95	7.82	8.36	7.41	7.51	7.03	8.18	7.97	7.92
	Flashpoint	° F	>200° F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F
	Ignitability	° F	<140° F	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed
	Reactivity - Cyanide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXICITY		Unit	USEPA Toxicity Characteristic Regulatory Criteria	BH1 2/9/2022	BH2 2/9/2022	BH3 2/9/2022	BH4 2/9/2022	BH5 2/9/2022	BH7 2/9/2022	BH8 2/9/2022	BH9 2/9/2022	BH10 2/9/2022	BH11 2/9/2022	BH12 2/9/2022	BH13 2/10/2022
TCLP Metals	Barium	mg/L	100	0.67	0.68	0.57	1.01	0.67	0.5	0.46	1.06	1.07	1.06	0.97	2.37
	Lead	mg/L	5	0.44	0.58	ND	0.56	5.11	ND	0.1	1.64	0.77	0.24	0.52	1.16
	Mercury	mg/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0003
TCLP VOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Pests/Herbicides	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NS No regulatory criteria available
ND Not detected

**EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS**

TABLE 3 (cont.) : SUMMARY OF TCLP & RCRA ANALYSIS

Parameter	Compounds Detected	Unit	Regulatory Criteria	BH14 2/10/2022	BH15 2/10/2022	BH16 2/10/2022	BH17 2/10/2022	BH18 2/10/2022	BH19 2/10/2022	BH20 2/10/2022	BH21 2/10/2022	BH22 2/10/2022	BH23 2/10/2022	BH24 2/10/2022	BH25 2/10/2022
RCRA Characteristics	pH	pH units	<2 or >12.5	7.31	7.44	7.06	6.04	7.22	6.99	7.26	7.47	7.77	8.14	9.73	8.31
	Flashpoint	° F	>200° F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F
	Ignitability	° F	<140° F	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed
	Reactivity - Cyanide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXICITY		Unit	USEPA Toxicity Characteristic Regulatory Criteria	BH14 2/10/2022	BH15 2/10/2022	BH16 2/10/2022	BH17 2/10/2022	BH18 2/10/2022	BH19 2/10/2022	BH20 2/10/2022	BH21 2/10/2022	BH22 2/10/2022	BH23 2/10/2022	BH24 2/10/2022	BH25 2/10/2022
TCLP Metals	Barium	mg/L	100	1.46	0.44	0.77	0.12	1.13	0.22	0.31	0.51	2.3	0.52	0.74	0.76
	Lead	mg/L	5	0.6	ND	0.16	ND	0.5	ND	ND	0.21	1.04	0.11	0.31	0.14
TCLP VOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Pests/Herbicides	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NS No regulatory criteria available
ND Not detected

**EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS**

TABLE 3 (cont.) : SUMMARY OF TCLP & RCRA ANALYSIS

Parameter	Compounds Detected	Unit	Regulatory Criteria	BH26 2/10/2022	BH27 2/10/2022	BH28 2/10/2022	BH29 2/10/2022	BH30 2/10/2022	BH31 2/10/2022	BH32 2/10/2022	BH33 2/11/2022	BH34 2/11/2022	BH35 2/11/2022	BH36 2/11/2022	BH37 2/11/2022
RCRA Characteristics	pH	pH units	<2 or >12.5	9.15	8.43	8.27	8.52	11	10.1	8.05	8.68	12.1	8.63	8.13	8.3
	Flashpoint	° F	>200° F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F
	Ignitability	° F	<140° F	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed
	Reactivity - Cyanide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXICITY		Unit	USEPA Toxicity Characteristic Regulatory Criteria	BH26 2/10/2022	BH27 2/10/2022	BH28 2/10/2022	BH29 2/10/2022	BH30 2/10/2022	BH31 2/10/2022	BH32 2/10/2022	BH33 2/11/2022	BH34 2/11/2022	BH35 2/11/2022	BH36 2/11/2022	BH37 2/11/2022
TCLP Metals	Barium	mg/L	100	0.61	0.93	1.18	0.68	0.6	0.98	0.9	0.78	0.41	0.74	0.32	0.6
	Lead	mg/L	5	ND	0.58	1.19	0.22	ND	0.22	1.02	0.4	ND	ND	ND	ND
TCLP VOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Pests/Herbicides	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NS No regulatory criteria available
ND Not detected

**EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS**

TABLE 3 (cont.): SUMMARY OF TCLP & RCRA ANALYSIS

Parameter	Compounds Detected	Unit	Regulatory Criteria	BH38	BH39	BH40	BH42	BH43	BH44	BH45	BH46	BH47	BH48	BH49
				2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022
RCRA Characteristics	pH	pH units	<2 or >12.5	8.49	8.56	8.98	8.42	8.22	8.22	8.56	6.42	8.35	8.4	7.82
	Flashpoint	° F	>200° F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F
	Ignitability	° F	<140° F	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed
	Reactivity - Cyanide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXICITY		Unit	USEPA Toxicity Characteristic Regulatory Criteria	BH38 2/11/2022	BH39 2/11/2022	BH40 2/11/2022	BH42 2/11/2022	BH43 2/11/2022	BH44 2/11/2022	BH45 2/11/2022	BH46 2/11/2022	BH47 2/11/2022	BH48 2/11/2022	BH49 2/11/2022
TCLP Metals	Barium	mg/L	100	1.38	0.52	0.84	0.41	0.67	0.83	0.8	1.24	33	0.69	0.48
	Lead	mg/L	5	0.12	ND	0.69	ND	ND	0.34	1.05	ND	0.19	0.39	ND
TCLP VOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Pests/Herbicides	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
 NS No regulatory criteria available
 ND Not detected

**EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS**

TABLE 3 (cont.): SUMMARY OF TCLP & RCRA ANALYSIS

Parameter	Compounds Detected	Unit	Regulatory Criteria	BH50	BH51	BH52	BH53	BH54	BH55	BH56	BH57	BH58	BH59	BH60	BH61
				2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022
RCRA Characteristics	pH	pH units	<2 or >12.5	7.91	8.15	8.11	9.3	8.39	8.34	11.8	8.68	8.75	8.49	8.85	8.56
	Flashpoint	° F	>200° F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F
	Ignitability	° F	<140° F	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed
	Reactivity - Cyanide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXICITY		Unit	USEPA Toxicity Characteristic Regulatory Criteria	BH50 2/11/2022	BH51 2/11/2022	BH52 2/11/2022	BH53 2/11/2022	BH54 2/11/2022	BH55 2/11/2022	BH56 2/11/2022	BH57 2/11/2022	BH58 2/11/2022	BH59 2/11/2022	BH60 2/11/2022	BH61 2/11/2022
TCLP Metals	Barium	mg/L	100	0.3	0.56	0.79	0.72	0.57	0.47	0.36	0.57	0.8	1.11	0.38	1.05
	Lead	mg/L	5	ND	0.53	0.1	0.14	ND	ND	ND	ND	0.95	ND	ND	0.14
TCLP VOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Pests/Herbicides	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NS No regulatory criteria available
ND Not detected

APPENDIX A
SOIL BORING LOGS

Please contact NYCDDC OEHS to request copies of boring logs

APPENDIX B
LABORATORY ANALYTICAL RESULTS



Thursday, February 24, 2022

Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Project ID: EAST SIDE COASTAL RESILIENCY
SDG ID: GCK66091
Sample ID#s: CK66091 - CK66110, CK66356 - CK66357

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

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

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

Sincerely yours,

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

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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



Analysis Report

February 24, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

9:20
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66100

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH22

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	7380	63	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	6.23	0.84	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	85.3	0.42	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.38	0.33	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	2830	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	1.31	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	5.52	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	18.1	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	35.2	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	12000	63	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.30	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	692	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	1880	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	291	4.2	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	85.2	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	18.9	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	211	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	2.30	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	12.7	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.8	3.8	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	35.8	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	150	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	82		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	7.77	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.61	0.61	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	60	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	60	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	60	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	53		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	93		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.6	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	87		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	300	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	3000	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	300	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	300	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	94		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	98		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1221	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1232	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1242	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1248	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1254	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1260	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1262	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1268	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	83		%	2	02/14/22	KCA	30 - 150 %
% DCBP (Confirmation)	88		%	2	02/14/22	KCA	30 - 150 %
% TCMX	74		%	2	02/14/22	KCA	30 - 150 %
% TCMX (Confirmation)	71		%	2	02/14/22	KCA	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.4	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDE	40	2.4	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDT	40	2.4	ug/Kg	2	02/15/22	AW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
a-Chlordane	ND	4.0	ug/Kg	2	02/15/22	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	02/15/22	AW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	02/15/22	AW	SW8081B
d-BHC	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	02/15/22	AW	SW8081B
g-Chlordane	ND	4.0	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	02/15/22	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	66		%	2	02/15/22	AW	30 - 150 %
% TCMX	63		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/15/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	79		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	83		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	56		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	70		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	68		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	69		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	300	mg/Kg	5	02/14/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	78		%	5	02/14/22	JRB	50 - 150 %
% Terphenyl (surr)	81		%	5	02/14/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	40	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	650	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	650	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	480	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	650	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	650	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1200	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	740	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	630	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	640	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	370	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	610	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	740	280	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	200	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	810	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	1400	280	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	420	280	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	950	280	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	1100	280	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	113		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	47		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	63		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	63		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	90		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	100		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	84		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	74		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	90		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	73		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	93		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

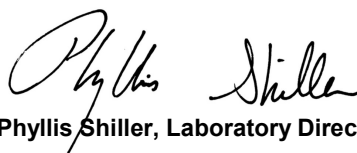
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

February 24, 2022

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Friday, February 18, 2022

Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Project ID: EAST SIDE COASTAL RESILIENCY
SDG ID: GCK34935
Sample ID#s: CK34935 - CK34945, CK65287 - CK65288

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

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

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

Sincerely yours,

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

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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



SDG Comments

February 18, 2022

SDG I.D.: GCK34935

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



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



Sample Id Cross Reference

February 18, 2022

SDG I.D.: GCK34935

Project ID: EAST SIDE COASTAL RESILIENCY

Client Id	Lab Id	Matrix
BH1	CK34935	SOIL
BH2	CK34936	SOIL
BH3	CK34937	SOIL
BH4	CK34938	SOIL
BH5	CK34939	SOIL
BH7	CK34940	SOIL
BH8	CK34941	SOIL
BH9	CK34942	SOIL
BH10	CK34943	SOIL
BH11	CK34944	SOIL
BH12	CK34945	SOIL
TB HL	CK65287	SOIL
TB LL	CK65288	SOIL



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

10:18
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34935

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Aluminum	11200	51	mg/Kg	10	02/12/22	EK	SW6010D
Arsenic	4.45	0.68	mg/Kg	1	02/12/22	CPP	SW6010D
Barium	105	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Beryllium	0.48	0.27	mg/Kg	1	02/12/22	CPP	SW6010D
Calcium	22600	51	mg/Kg	10	02/12/22	CPP	SW6010D
Cadmium	1.65	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Cobalt	7.72	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Chromium	16.4	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Copper	54.9	0.7	mg/kg	1	02/12/22	CPP	SW6010D
Iron	21200	51	mg/Kg	10	02/12/22	EK	SW6010D
Mercury	1.31	0.15	mg/Kg	10	02/11/22	AP	SW7471B
Potassium	1870	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Magnesium	3450	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Manganese	403	3.4	mg/Kg	10	02/12/22	CPP	SW6010D
Sodium	702	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Nickel	15.9	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Lead	252	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	02/12/22	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	0.67	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	0.44	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.1	3.1	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	22.3	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Zinc	103	0.7	mg/Kg	1	02/12/22	CPP	SW6010D
Percent Solid	88		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	8.11	1.00	pH Units	1	02/10/22 22:41	JW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.47	0.47	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
C9-C28	ND	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
Total EPH	ND	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	67		%	1	02/11/22	JRB	40 - 140 %
% Terphenyl (surr)	104		%	1	02/11/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	9.1	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	96		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	74		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1221	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1232	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1242	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1248	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1254	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1260	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1262	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1268	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	68		%	2	02/11/22	SC	30 - 150 %
% DCBP (Confirmation)	66		%	2	02/11/22	SC	30 - 150 %
% TCMX	68		%	2	02/11/22	SC	30 - 150 %
% TCMX (Confirmation)	65		%	2	02/11/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	2.0	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	62		%	2	02/11/22	AW	30 - 150 %
% TCMX	60		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	62		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	129		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	139		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	81		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	77		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	69		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	73		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	56	mg/Kg	1	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	80		%	1	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	81		%	1	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	33	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.4	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	83	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	104		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	700	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	650	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	540	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	390	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	560	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	710	260	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	740	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	1500	260	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	460	260	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	940	260	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	1300	260	ug/Kg	1	02/11/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	99		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	53		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	71		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	70		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	86		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	73		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	60		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	77		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	60		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	87		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

B = Present in blank, no bias suspected.

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

BRL=Below Reporting Level L=Biased Low

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

Comments:

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The GRO (C6-C10) is quantitated using an gasoline standard.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

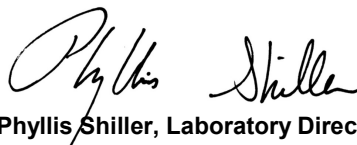
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

11:00
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34936

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Aluminum	3780	51	mg/Kg	10	02/12/22	EK	SW6010D
Arsenic	1.13	0.68	mg/Kg	1	02/12/22	CPP	SW6010D
Barium	22.2	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Beryllium	< 0.27	0.27	mg/Kg	1	02/12/22	CPP	SW6010D
Calcium	1290	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Cadmium	0.78	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Cobalt	4.23	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Chromium	8.36	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Copper	28.5	0.7	mg/kg	1	02/12/22	CPP	SW6010D
Iron	8870	5.1	mg/Kg	1	02/12/22	EK	SW6010D
Mercury	1.15	0.03	mg/Kg	2	02/11/22	AP	SW7471B
Potassium	776	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Magnesium	1890	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Manganese	101	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Sodium	368	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Nickel	11.5	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Lead	59.0	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	02/12/22	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	0.68	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	0.58	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.1	3.1	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	13.8	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Zinc	40.6	0.7	mg/Kg	1	02/12/22	CPP	SW6010D
Percent Solid	86		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	7.96	1.00	pH Units	1	02/10/22 22:41	JW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.73	0.73	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	11	mg/kg	1	02/12/22	JRB	NJEPH 10-08 R3
C9-C28	ND	11	mg/kg	1	02/12/22	JRB	NJEPH 10-08 R3
Total EPH	ND	11	mg/kg	1	02/12/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	50		%	1	02/12/22	JRB	40 - 140 %
% Terphenyl (surr)	80		%	1	02/12/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	10	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	94		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	76		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	81		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/12/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	51		%	2	02/12/22	SC	30 - 150 %
% DCBP (Confirmation)	50		%	2	02/12/22	SC	30 - 150 %
% TCMX	49		%	2	02/12/22	SC	30 - 150 %
% TCMX (Confirmation)	50		%	2	02/12/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	52		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	40		%	2	02/11/22	AW	30 - 150 %
% TCMX	50		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	48		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	145		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	153		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	55		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	53		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	62		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	65		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	82	58	mg/Kg	1	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	80		%	1	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	86		%	1	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	27	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	32	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.3	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	27	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	80	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	104		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	450	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	410	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	350	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	340	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	460	270	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	990	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	990	270	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	890	270	ug/Kg	1	02/11/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	103		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	49		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	67		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	88		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	88		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	80		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	61		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	77		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	63		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	89		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

B = Present in blank, no bias suspected.

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

BRL=Below Reporting Level L=Biased Low

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:

The TPH (C10-C28) is quantitated using an alkane standard.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

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

Corrosivity is based solely on the pH analysis performed above.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

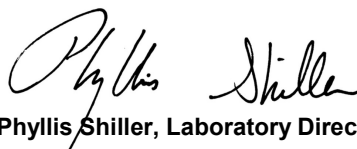
The GRO (C6-C10) is quantitated using an gasoline standard.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

11:40
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34937

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	02/12/22	CPP	SW6010D
Aluminum	7430	53	mg/Kg	10	02/12/22	EK	SW6010D
Arsenic	3.79	0.71	mg/Kg	1	02/12/22	CPP	SW6010D
Barium	62.2	0.35	mg/Kg	1	02/12/22	CPP	SW6010D
Beryllium	0.35	0.28	mg/Kg	1	02/12/22	CPP	SW6010D
Calcium	9750	5.3	mg/Kg	1	02/12/22	CPP	SW6010D
Cadmium	1.20	0.35	mg/Kg	1	02/12/22	CPP	SW6010D
Cobalt	5.20	0.35	mg/Kg	1	02/12/22	CPP	SW6010D
Chromium	17.0	0.35	mg/Kg	1	02/12/22	CPP	SW6010D
Copper	25.0	0.7	mg/kg	1	02/12/22	CPP	SW6010D
Iron	13500	53	mg/Kg	10	02/12/22	EK	SW6010D
Mercury	0.90	0.03	mg/Kg	2	02/11/22	AP	SW7471B
Potassium	1000	5.3	mg/Kg	1	02/12/22	CPP	SW6010D
Magnesium	3890	5.3	mg/Kg	1	02/12/22	CPP	SW6010D
Manganese	221	3.5	mg/Kg	10	02/12/22	CPP	SW6010D
Sodium	188	5.3	mg/Kg	1	02/12/22	CPP	SW6010D
Nickel	13.6	0.35	mg/Kg	1	02/12/22	CPP	SW6010D
Lead	80.9	0.35	mg/Kg	1	02/12/22	CPP	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	02/12/22	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	0.57	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.2	3.2	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	22.5	0.35	mg/Kg	1	02/12/22	CPP	SW6010D
Zinc	68.5	0.7	mg/Kg	1	02/12/22	CPP	SW6010D
Percent Solid	85		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	8.30	1.00	pH Units	1	02/10/22 22:42	JW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.53	0.53	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	58	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
C9-C28	ND	58	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
Total EPH	ND	58	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	80		%	5	02/15/22	JRB	40 - 140 %
% Terphenyl (surr)	82		%	5	02/15/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.2	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	95		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	72		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	72		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	02/11/22	SC	30 - 150 %
% DCBP (Confirmation)	57		%	2	02/11/22	SC	30 - 150 %
% TCMX	59		%	2	02/11/22	SC	30 - 150 %
% TCMX (Confirmation)	58		%	2	02/11/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	5.6	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	3.1	2.3	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	10	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	10	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	53		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	52		%	2	02/11/22	AW	30 - 150 %
% TCMX	53		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	53		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	133		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	140		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	81		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	78		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	69		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	72		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	86		%	5	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	89		%	5	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	34	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.5	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	5.6	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	84	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	104		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	500	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	690	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	690	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	460	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	630	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	800	270	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	860	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	540	270	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	460	270	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	690	270	ug/Kg	1	02/11/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	103		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	50		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	67		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	80		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	73		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	67		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	55		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	66		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	55		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	78		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

B = Present in blank, no bias suspected.

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

BRL=Below Reporting Level L=Biased Low

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

Comments:

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Corrosivity is based solely on the pH analysis performed above.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The GRO (C6-C10) is quantitated using an gasoline standard.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

11:50
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34938

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Aluminum	8850	54	mg/Kg	10	02/12/22	EK	SW6010D
Arsenic	5.18	0.72	mg/Kg	1	02/12/22	CPP	SW6010D
Barium	105	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Beryllium	0.49	0.29	mg/Kg	1	02/12/22	CPP	SW6010D
Calcium	9950	5.4	mg/Kg	1	02/12/22	CPP	SW6010D
Cadmium	1.41	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Cobalt	7.87	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Chromium	17.7	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Copper	53.2	0.7	mg/kg	1	02/12/22	CPP	SW6010D
Iron	16400	54	mg/Kg	10	02/12/22	EK	SW6010D
Mercury	1.01	0.03	mg/Kg	2	02/11/22	AP	SW7471B
Potassium	1460	5.4	mg/Kg	1	02/12/22	CPP	SW6010D
Magnesium	2890	5.4	mg/Kg	1	02/12/22	CPP	SW6010D
Manganese	340	3.6	mg/Kg	10	02/12/22	CPP	SW6010D
Sodium	281	5.4	mg/Kg	1	02/12/22	CPP	SW6010D
Nickel	22.5	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Lead	365	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	02/12/22	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	1.01	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	0.56	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.2	3.2	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	24.2	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Zinc	119	0.7	mg/Kg	1	02/12/22	CPP	SW6010D
Percent Solid	88		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	7.95	1.00	pH Units	1	02/10/22 22:42	JW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.57	0.57	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	11	mg/kg	1	02/12/22	JRB	NJEPH 10-08 R3
C9-C28	ND	11	mg/kg	1	02/12/22	JRB	NJEPH 10-08 R3
Total EPH	ND	11	mg/kg	1	02/12/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	79		%	1	02/12/22	JRB	40 - 140 %
% Terphenyl (surr)	94		%	1	02/12/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	5.8	mg/Kg	50	02/11/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	97		%	50	02/11/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	98		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	85		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/11/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	61		%	2	02/11/22	SC	30 - 150 %
% DCBP (Confirmation)	59		%	2	02/11/22	SC	30 - 150 %
% TCMX	54		%	2	02/11/22	SC	30 - 150 %
% TCMX (Confirmation)	53		%	2	02/11/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	55		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	60		%	2	02/11/22	AW	30 - 150 %
% TCMX	49		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	53		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	131		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	138		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	85		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	78		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	71		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	73		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	81		%	5	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	101		%	5	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	24	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	48	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	29	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.7	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	3.9	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	24	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	4.8	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	72	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	106		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	500	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	470	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	430	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	280	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	390	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	540	260	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	1100	260	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	320	260	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	1000	260	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	1000	260	ug/Kg	1	02/11/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	109		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	52		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	71		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	69		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	87		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	89		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	84		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	69		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	81		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	64		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	91		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

B = Present in blank, no bias suspected.

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

BRL=Below Reporting Level L=Biased Low

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:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The GRO (C6-C10) is quantitated using an gasoline standard.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

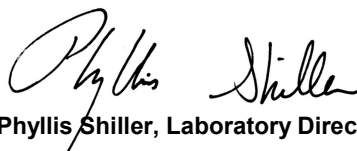
Corrosivity is based solely on the pH analysis performed above.

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

The TPH (C10-C28) is quantitated using an alkane standard.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date Time
 02/09/22 12:05
 02/10/22 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34939

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Aluminum	6180	51	mg/Kg	10	02/12/22	EK	SW6010D
Arsenic	7.49	0.68	mg/Kg	1	02/12/22	CPP	SW6010D
Barium	184	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Beryllium	0.39	0.27	mg/Kg	1	02/12/22	CPP	SW6010D
Calcium	14100	51	mg/Kg	10	02/12/22	CPP	SW6010D
Cadmium	1.80	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Cobalt	7.37	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Chromium	20.6	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Copper	49.8	0.7	mg/kg	1	02/12/22	CPP	SW6010D
Iron	21600	51	mg/Kg	10	02/12/22	EK	SW6010D
Mercury	0.44	0.03	mg/Kg	2	02/11/22	AP	SW7471B
Potassium	1350	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Magnesium	3830	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Manganese	378	3.4	mg/Kg	10	02/12/22	CPP	SW6010D
Sodium	178	5.1	mg/Kg	1	02/12/22	CPP	SW6010D
Nickel	16.8	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Lead	672	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	02/12/22	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	0.67	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	5.11	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.0	3.0	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	23.9	0.34	mg/Kg	1	02/12/22	CPP	SW6010D
Zinc	185	0.7	mg/Kg	1	02/12/22	CPP	SW6010D
Percent Solid	87		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	7.82	1.00	pH Units	1	02/10/22 22:42	JW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.64	0.64	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	57	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
C9-C28	ND	57	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
Total EPH	ND	57	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	90		%	5	02/15/22	JRB	40 - 140 %
% Terphenyl (surr)	96		%	5	02/15/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.4	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	95		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	78		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1221	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1232	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1242	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1248	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1254	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1260	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1262	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1268	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	02/11/22	SC	30 - 150 %
% DCBP (Confirmation)	63		%	2	02/11/22	SC	30 - 150 %
% TCMX	62		%	2	02/11/22	SC	30 - 150 %
% TCMX (Confirmation)	60		%	2	02/11/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	4.6	2.3	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	61		%	2	02/11/22	AW	30 - 150 %
% TCMX	55		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	56		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	148		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	152		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	76		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	72		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	66		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	69		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	73		%	5	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	72		%	5	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	34	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.6	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	85	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	290	260	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	370	260	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	620	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	500	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	450	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	290	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	460	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	600	260	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	1500	260	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	290	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	330	260	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	1700	260	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	1200	260	ug/Kg	1	02/11/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	113		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	48		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	65		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	88		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	77		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	65		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	79		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	61		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	87		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

B = Present in blank, no bias suspected.

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

BRL=Below Reporting Level L=Biased Low

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:

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

The TPH (C10-C28) is quantitated using an alkane standard.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The GRO (C6-C10) is quantitated using an gasoline standard.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

13:25
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34940

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH7

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	02/12/22	CPP	SW6010D
Aluminum	16000	55	mg/Kg	10	02/12/22	EK	SW6010D
Arsenic	4.13	0.74	mg/Kg	1	02/12/22	CPP	SW6010D
Barium	103	0.37	mg/Kg	1	02/12/22	CPP	SW6010D
Beryllium	0.66	0.29	mg/Kg	1	02/12/22	CPP	SW6010D
Calcium	3200	5.5	mg/Kg	1	02/12/22	CPP	SW6010D
Cadmium	1.76	0.37	mg/Kg	1	02/12/22	CPP	SW6010D
Cobalt	12.5	0.37	mg/Kg	1	02/12/22	CPP	SW6010D
Chromium	24.9	0.37	mg/Kg	1	02/12/22	CPP	SW6010D
Copper	32.2	0.7	mg/kg	1	02/12/22	CPP	SW6010D
Iron	22700	55	mg/Kg	10	02/12/22	EK	SW6010D
Mercury	0.42	0.03	mg/Kg	2	02/11/22	AP	SW7471B
Potassium	2330	5.5	mg/Kg	1	02/12/22	CPP	SW6010D
Magnesium	4210	5.5	mg/Kg	1	02/12/22	CPP	SW6010D
Manganese	325	3.7	mg/Kg	10	02/12/22	CPP	SW6010D
Sodium	178	5.5	mg/Kg	1	02/12/22	CPP	SW6010D
Nickel	18.6	0.37	mg/Kg	1	02/12/22	CPP	SW6010D
Lead	77.9	0.37	mg/Kg	1	02/12/22	CPP	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	02/12/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	0.50	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	40.5	0.37	mg/Kg	1	02/12/22	CPP	SW6010D
Zinc	93.0	0.7	mg/Kg	1	02/12/22	CPP	SW6010D
Percent Solid	86		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	8.36	1.00	pH Units	1	02/10/22 22:42	JW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.53	0.53	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	16	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
C9-C28	57	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
Total EPH	73	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	120		%	1	02/11/22	JRB	40 - 140 %
% Terphenyl (surr)	124		%	1	02/11/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	7.0	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	93		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	99		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	97		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/12/22	SC	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/12/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	02/12/22	SC	30 - 150 %
% DCBP (Confirmation)	61		%	2	02/12/22	SC	30 - 150 %
% TCMX	59		%	2	02/12/22	SC	30 - 150 %
% TCMX (Confirmation)	60		%	2	02/12/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	61		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	60		%	2	02/11/22	AW	30 - 150 %
% TCMX	56		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	145		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	152		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	72		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	66		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	61		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	62		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	83		%	5	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	80		%	5	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	29	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	35	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	29	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	88	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	104		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	620	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	620	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	620	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	350	270	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	1100	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	970	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	790	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	520	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	810	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	1100	270	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	770	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	2100	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	630	270	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	1700	270	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	2000	270	ug/Kg	1	02/11/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	117		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	80		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	56		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	75		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	74		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	89		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	80		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	78		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	64		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	80		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	60		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	88		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

B = Present in blank, no bias suspected.

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

BRL=Below Reporting Level L=Biased Low

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:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The TPH (C10-C28) is quantitated using an alkane standard.

The GRO (C6-C10) is quantitated using an gasoline standard.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

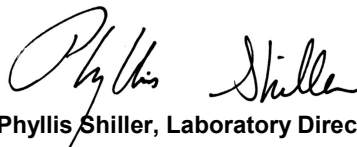
Corrosivity is based solely on the pH analysis performed above.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

13:17
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34941

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Aluminum	11500	55	mg/Kg	10	02/12/22	EK	SW6010D
Arsenic	3.57	0.73	mg/Kg	1	02/12/22	CPP	SW6010D
Barium	133	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Beryllium	0.49	0.29	mg/Kg	1	02/12/22	CPP	SW6010D
Calcium	8180	5.5	mg/Kg	1	02/12/22	CPP	SW6010D
Cadmium	1.49	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Cobalt	5.73	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Chromium	14.6	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Copper	25.3	0.7	mg/kg	1	02/12/22	CPP	SW6010D
Iron	14000	55	mg/Kg	10	02/12/22	EK	SW6010D
Mercury	2.28	0.14	mg/Kg	10	02/11/22	AP	SW7471B
Potassium	976	5.5	mg/Kg	1	02/12/22	CPP	SW6010D
Magnesium	2610	5.5	mg/Kg	1	02/12/22	CPP	SW6010D
Manganese	379	3.6	mg/Kg	10	02/12/22	CPP	SW6010D
Sodium	254	5.5	mg/Kg	1	02/12/22	CPP	SW6010D
Nickel	13.6	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Lead	165	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	02/12/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	0.46	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	0.091	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/12/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	20.5	0.36	mg/Kg	1	02/12/22	CPP	SW6010D
Zinc	117	0.7	mg/Kg	1	02/12/22	CPP	SW6010D
Percent Solid	87		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	7.41	1.00	pH Units	1	02/10/22 22:42	JW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.48	0.48	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
C9-C28	ND	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
Total EPH	ND	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	110		%	1	02/11/22	JRB	40 - 140 %
% Terphenyl (surr)	119		%	1	02/11/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	16	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	93		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	94		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	105		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	72		%	2	02/11/22	SC	30 - 150 %
% DCBP (Confirmation)	71		%	2	02/11/22	SC	30 - 150 %
% TCMX	62		%	2	02/11/22	SC	30 - 150 %
% TCMX (Confirmation)	61		%	2	02/11/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	56		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	69		%	2	02/11/22	AW	30 - 150 %
% TCMX	57		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	71		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	149		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	148		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	74		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	79		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	66		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	69		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	67		%	5	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	79		%	5	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	26	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	31	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.1	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	26	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	5.1	ug/kg	1	02/11/22	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	77	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	105		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	480	270	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	1100	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	1000	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	830	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	550	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	800	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	1100	270	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	2300	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	670	270	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	1800	270	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	2200	270	ug/Kg	1	02/11/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	103		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	78		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	57		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	74		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	96		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	77		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	76		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	64		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	70		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	61		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	83		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

B = Present in blank, no bias suspected.

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

BRL=Below Reporting Level L=Biased Low

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

Comments:

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The GRO (C6-C10) is quantitated using an gasoline standard.

Corrosivity is based solely on the pH analysis performed above.

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

The TPH (C10-C28) is quantitated using an alkane standard.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

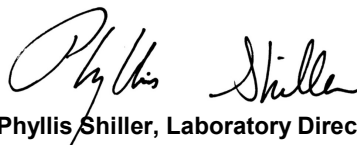
Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

13:50
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34942

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH9

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	02/11/22	TH	SW6010D
Aluminum	10500	53	mg/Kg	10	02/11/22	TH	SW6010D
Arsenic	3.46	0.70	mg/Kg	1	02/11/22	TH	SW6010D
Barium	96.6	0.35	mg/Kg	1	02/11/22	TH	SW6010D
Beryllium	0.48	0.28	mg/Kg	1	02/11/22	TH	SW6010D
Calcium	2600	5.3	mg/Kg	1	02/11/22	TH	SW6010D
Cadmium	1.45	0.35	mg/Kg	1	02/11/22	TH	SW6010D
Cobalt	12.5	0.35	mg/Kg	1	02/11/22	TH	SW6010D
Chromium	19.3	0.35	mg/Kg	1	02/11/22	TH	SW6010D
Copper	30.2	0.7	mg/kg	1	02/11/22	TH	SW6010D
Iron	16400	53	mg/Kg	10	02/11/22	TH	SW6010D
Mercury	0.47	0.03	mg/Kg	2	02/11/22	AP	SW7471B
Potassium	1160	5.3	mg/Kg	1	02/11/22	TH	SW6010D
Magnesium	10300	53	mg/Kg	10	02/11/22	TH	SW6010D
Manganese	1000	3.5	mg/Kg	10	02/11/22	TH	SW6010D
Sodium	569	5.3	mg/Kg	1	02/11/22	TH	SW6010D
Nickel	44.2	0.35	mg/Kg	1	02/11/22	TH	SW6010D
Lead	137	0.35	mg/Kg	1	02/11/22	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	02/11/22	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/11/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	1.06	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	1.64	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.2	3.2	mg/Kg	1	02/11/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	26.4	0.35	mg/Kg	1	02/11/22	TH	SW6010D
Zinc	98.4	0.7	mg/Kg	1	02/11/22	TH	SW6010D
Percent Solid	85		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	7.51	1.00	pH Units	1	02/10/22 22:42	JW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
C9-C28	ND	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
Total EPH	ND	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	114		%	1	02/11/22	JRB	40 - 140 %
% Terphenyl (surr)	118		%	1	02/11/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	12	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	91		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	96		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	83		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/11/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	73		%	2	02/11/22	SC	30 - 150 %
% DCBP (Confirmation)	70		%	2	02/11/22	SC	30 - 150 %
% TCMX	65		%	2	02/11/22	SC	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/11/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	3.2	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	15	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	18	2.3	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	55		%	2	02/11/22	AW	30 - 150 %
% TCMX	58		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	57		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	137		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	149		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	67		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	64		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	68		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	71		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	58	mg/Kg	1	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	74		%	1	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	79		%	1	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	25	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	49	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	30	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.9	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.0	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	25	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	74	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	105		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	61		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	42		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	32		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	41		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	40		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	54		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	75		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	73		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	62		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	76		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	60		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	80		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The GRO (C6-C10) is quantitated using an gasoline standard.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Volatle Comment:

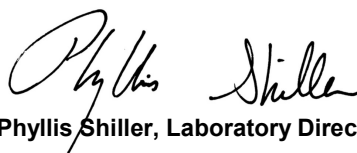
L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

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

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

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



Phyllis Shiller, Laboratory Director

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

14:25
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34943

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	02/11/22	TH	SW6010D
Aluminum	7580	57	mg/Kg	10	02/11/22	TH	SW6010D
Arsenic	4.62	0.76	mg/Kg	1	02/11/22	TH	SW6010D
Barium	124	0.38	mg/Kg	1	02/11/22	TH	SW6010D
Beryllium	0.39	0.30	mg/Kg	1	02/11/22	TH	SW6010D
Calcium	7080	5.7	mg/Kg	1	02/11/22	TH	SW6010D
Cadmium	1.49	0.38	mg/Kg	1	02/11/22	TH	SW6010D
Cobalt	8.15	0.38	mg/Kg	1	02/11/22	TH	SW6010D
Chromium	16.0	0.38	mg/Kg	1	02/11/22	TH	SW6010D
Copper	91.9	0.8	mg/kg	1	02/11/22	TH	SW6010D
Iron	19200	57	mg/Kg	10	02/11/22	TH	SW6010D
Mercury	0.30	0.03	mg/Kg	2	02/11/22	AP	SW7471B
Potassium	1600	5.7	mg/Kg	1	02/11/22	TH	SW6010D
Magnesium	3520	5.7	mg/Kg	1	02/11/22	TH	SW6010D
Manganese	311	3.8	mg/Kg	10	02/11/22	TH	SW6010D
Sodium	169	5.7	mg/Kg	1	02/11/22	TH	SW6010D
Nickel	16.7	0.38	mg/Kg	1	02/11/22	TH	SW6010D
Lead	195	0.38	mg/Kg	1	02/11/22	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	02/11/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/11/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	1.07	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	0.77	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.4	3.4	mg/Kg	1	02/11/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	52.2	0.38	mg/Kg	1	02/11/22	TH	SW6010D
Zinc	132	0.8	mg/Kg	1	02/11/22	TH	SW6010D
Percent Solid	89		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	7.03	1.00	pH Units	1	02/10/22 22:42	JW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.47	0.47	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	120	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
C9-C28	210	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
Total EPH	330	11	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	109		%	1	02/11/22	JRB	40 - 140 %
% Terphenyl (surr)	110		%	1	02/11/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	4.9	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	89		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	70		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	69		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1221	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1232	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1242	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1248	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1254	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1260	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1262	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1268	ND	74	ug/Kg	2	02/11/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	02/11/22	SC	30 - 150 %
% DCBP (Confirmation)	57		%	2	02/11/22	SC	30 - 150 %
% TCMX	61		%	2	02/11/22	SC	30 - 150 %
% TCMX (Confirmation)	65		%	2	02/11/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	3.4	2.2	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	56		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	64		%	2	02/11/22	AW	30 - 150 %
% TCMX	55		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	60		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	148		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	157		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	72		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	67		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	66		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	70		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	74		%	5	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	76		%	5	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	27	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	32	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.3	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	27	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	80	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	105		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	360	260	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	280	260	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	1900	260	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	6800	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	5200	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	5300	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	2700	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	3900	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	680	370	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	8300	2600	ug/Kg	10	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	930	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	350	260	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	18000	2600	ug/Kg	10	02/11/22	WB	SW8270D
Fluorene	490	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	3300	260	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	10000	2600	ug/Kg	10	02/11/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	15000	2600	ug/Kg	10	02/11/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	108		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	57		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	75		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	73		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	89		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol (10x)	110		%	10	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	94		%	10	02/11/22	WB	30 - 130 %
% 2-Fluorophenol (10x)	82		%	10	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	90		%	10	02/11/22	WB	30 - 130 %
% Phenol-d5 (10x)	97		%	10	02/11/22	WB	30 - 130 %
% Terphenyl-d14 (10x)	101		%	10	02/11/22	WB	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270

QA/QC Surrogates

% 2,4,6-Tribromophenol	80		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	86		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	70		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	84		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	65		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	88		%	1	02/12/22	WB	30 - 130 %

Semivolatile Library Search Completed 02/11/22 MR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The TPH (C10-C28) is quantitated using an alkane standard.

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

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The GRO (C6-C10) is quantitated using an gasoline standard.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

14:50
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34944

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	02/11/22	TH	SW6010D
Aluminum	9610	51	mg/Kg	10	02/11/22	TH	SW6010D
Arsenic	7.79	0.68	mg/Kg	1	02/11/22	TH	SW6010D
Barium	141	0.34	mg/Kg	1	02/11/22	TH	SW6010D
Beryllium	0.53	0.27	mg/Kg	1	02/11/22	TH	SW6010D
Calcium	17900	51	mg/Kg	10	02/11/22	TH	SW6010D
Cadmium	1.77	0.34	mg/Kg	1	02/11/22	TH	SW6010D
Cobalt	7.32	0.34	mg/Kg	1	02/11/22	TH	SW6010D
Chromium	22.2	0.34	mg/Kg	1	02/11/22	TH	SW6010D
Copper	48.7	0.7	mg/kg	1	02/11/22	TH	SW6010D
Iron	20300	51	mg/Kg	10	02/11/22	TH	SW6010D
Mercury	0.74	0.03	mg/Kg	2	02/11/22	AP	SW7471B
Potassium	1310	5.1	mg/Kg	1	02/11/22	TH	SW6010D
Magnesium	4740	5.1	mg/Kg	1	02/11/22	TH	SW6010D
Manganese	367	3.4	mg/Kg	10	02/11/22	TH	SW6010D
Sodium	354	5.1	mg/Kg	1	02/11/22	TH	SW6010D
Nickel	25.1	0.34	mg/Kg	1	02/11/22	TH	SW6010D
Lead	208	0.34	mg/Kg	1	02/11/22	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	02/11/22	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/11/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	1.06	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	0.24	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.1	3.1	mg/Kg	1	02/11/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	28.2	0.34	mg/Kg	1	02/11/22	TH	SW6010D
Zinc	134	0.7	mg/Kg	1	02/11/22	TH	SW6010D
Percent Solid	87		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	8.18	1.00	pH Units	1	02/10/22 22:42	JW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.52	0.52	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	14	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	14	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	126		%	1	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	123		%	1	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/U	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	7.1	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	96		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	84		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	76		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1221	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1232	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1242	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1248	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1254	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1260	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1262	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1268	ND	75	ug/Kg	2	02/11/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	02/11/22	SC	30 - 150 %
% DCBP (Confirmation)	60		%	2	02/11/22	SC	30 - 150 %
% TCMX	57		%	2	02/11/22	SC	30 - 150 %
% TCMX (Confirmation)	57		%	2	02/11/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	56		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	52		%	2	02/11/22	AW	30 - 150 %
% TCMX	54		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	53		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	133		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	137		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	65		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	62		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	53		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	55		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	56	mg/Kg	1	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	84		%	1	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	85		%	1	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	24	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	47	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	28	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.4	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	3.8	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	24	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	4.7	ug/kg	1	02/11/22	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	71	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	980	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	920	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	980	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	650	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	710	260	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	970	260	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	190	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	2000	260	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	660	260	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	840	260	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	1700	260	ug/Kg	1	02/11/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	101		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	88		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	74		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	81		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	86		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	88		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	89		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	72		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	84		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	63		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	87		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The TPH (C10-C28) is quantitated using an alkane standard.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

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

The GRO (C6-C10) is quantitated using an gasoline standard.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/09/22
 02/10/22

Time

15:25
 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK34945

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	02/11/22	TH	SW6010D
Aluminum	8280	59	mg/Kg	10	02/11/22	TH	SW6010D
Arsenic	4.69	0.78	mg/Kg	1	02/11/22	TH	SW6010D
Barium	323	0.39	mg/Kg	1	02/11/22	TH	SW6010D
Beryllium	0.49	0.31	mg/Kg	1	02/11/22	TH	SW6010D
Calcium	10900	5.9	mg/Kg	1	02/11/22	TH	SW6010D
Cadmium	1.61	0.39	mg/Kg	1	02/11/22	TH	SW6010D
Cobalt	7.58	0.39	mg/Kg	1	02/11/22	TH	SW6010D
Chromium	19.8	0.39	mg/Kg	1	02/11/22	TH	SW6010D
Copper	41.4	0.8	mg/kg	1	02/11/22	TH	SW6010D
Iron	16400	59	mg/Kg	10	02/11/22	TH	SW6010D
Mercury	0.58	0.03	mg/Kg	2	02/11/22	AP	SW7471B
Potassium	1200	5.9	mg/Kg	1	02/11/22	TH	SW6010D
Magnesium	4420	5.9	mg/Kg	1	02/11/22	TH	SW6010D
Manganese	345	3.9	mg/Kg	10	02/11/22	TH	SW6010D
Sodium	258	5.9	mg/Kg	1	02/11/22	TH	SW6010D
Nickel	15.7	0.39	mg/Kg	1	02/11/22	TH	SW6010D
Lead	473	0.39	mg/Kg	1	02/11/22	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	02/11/22	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/11/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Barium	0.97	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/11/22	AP	SW846 1311/7470
TCLP Lead	0.52	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/11/22	EK	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.5	3.5	mg/Kg	1	02/11/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/11/22	AB/AB	SW3010A
Vanadium	30.2	0.39	mg/Kg	1	02/11/22	TH	SW6010D
Zinc	293	0.8	mg/Kg	1	02/11/22	TH	SW6010D
Percent Solid	84		%		02/10/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/10/22	JW	SW846-Corr
Flash Point	>200	200	Degree F	1	02/11/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/11/22	G	SW846-Ignit
pH at 25C - Soil	7.97	1.00	pH Units	1	02/10/22 22:42	JW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/11/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/11/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/11/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.66	0.66	mg/Kg	1	02/14/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	23	12	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
C9-C28	27	12	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3
Total EPH	50	12	mg/kg	1	02/11/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	117		%	1	02/11/22	JRB	40 - 140 %
% Terphenyl (surr)	129		%	1	02/11/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/10/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/10/22	O/E	SW3545A
Mercury Digestion	Completed				02/11/22	K/AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/10/22	R/E	SW3546
Soil Extraction for Herbicide	Completed				02/10/22	M/D	SW3546
NJ EPH Extraction	Completed				02/10/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/10/22	R/U	SW3546
TCLP Digestion Mercury	Completed				02/11/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/11/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/10/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/10/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/11/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/11/22	JS	SW1311
Total Metals Digest	Completed				02/10/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.7	mg/Kg	50	02/11/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	96		%	50	02/11/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	63		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	60		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	78	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1221	ND	78	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1232	ND	78	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1242	ND	78	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1248	ND	78	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1254	ND	78	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1260	ND	78	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1262	ND	78	ug/Kg	2	02/11/22	SC	SW8082A
PCB-1268	ND	78	ug/Kg	2	02/11/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	02/11/22	SC	30 - 150 %
% DCBP (Confirmation)	59		%	2	02/11/22	SC	30 - 150 %
% TCMX	61		%	2	02/11/22	SC	30 - 150 %
% TCMX (Confirmation)	59		%	2	02/11/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDE	40	2.3	ug/Kg	2	02/11/22	AW	SW8081B
4,4' -DDT	72	2.3	ug/Kg	2	02/11/22	AW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	02/11/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/11/22	AW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	02/11/22	AW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	02/11/22	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	02/11/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/11/22	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	02/11/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	54		%	2	02/11/22	AW	30 - 150 %
% DCBP (Confirmation)	54		%	2	02/11/22	AW	30 - 150 %
% TCMX	53		%	2	02/11/22	AW	30 - 150 %
% TCMX (Confirmation)	53		%	2	02/11/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/13/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/13/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	149		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	147		%	10	02/13/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	70		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	67		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	67		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	70		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	74	58	mg/Kg	1	02/11/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	91		%	1	02/11/22	JRB	50 - 150 %
% Terphenyl (surr)	103		%	1	02/11/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	30	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Chloroform	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	36	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.9	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	30	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/11/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	91	ug/kg	1	02/11/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/14/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/14/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/14/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/14/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/14/22	HM	70 - 130 %
Volatile Library Search	Completed				02/11/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrophenol	ND	620	ug/Kg	1	02/11/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitroaniline	ND	620	ug/Kg	1	02/11/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/11/22	WB	SW8270D
3-Nitroaniline	ND	620	ug/Kg	1	02/11/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	02/11/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/11/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Anthracene	470	270	ug/Kg	1	02/11/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benz(a)anthracene	1600	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(a)pyrene	1400	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(b)fluoranthene	1300	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(ghi)perylene	710	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzo(k)fluoranthene	1300	270	ug/Kg	1	02/11/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Carbazole	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
Chrysene	1400	270	ug/Kg	1	02/11/22	WB	SW8270D
Dibenz(a,h)anthracene	200	190	ug/Kg	1	02/11/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-butylphthalate	ND	770	ug/Kg	1	02/11/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluoranthene	3400	270	ug/Kg	1	02/11/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	880	270	ug/Kg	1	02/11/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodimethylamine	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/11/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	02/11/22	WB	SW8270D
Phenanthrene	1700	270	ug/Kg	1	02/11/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/11/22	WB	SW8270D
Pyrene	2600	270	ug/Kg	1	02/11/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	91		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77		%	1	02/11/22	WB	30 - 130 %
% 2-Fluorophenol	71		%	1	02/11/22	WB	30 - 130 %
% Nitrobenzene-d5	72		%	1	02/11/22	WB	30 - 130 %
% Phenol-d5	75		%	1	02/11/22	WB	30 - 130 %
% Terphenyl-d14	83		%	1	02/11/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/12/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83		%	1	02/12/22	WB	15 - 110 %
% 2-Fluorobiphenyl	87		%	1	02/12/22	WB	30 - 130 %
% 2-Fluorophenol	73		%	1	02/12/22	WB	15 - 110 %
% Nitrobenzene-d5	85		%	1	02/12/22	WB	30 - 130 %
% Phenol-d5	66		%	1	02/12/22	WB	15 - 110 %
% Terphenyl-d14	93		%	1	02/12/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/11/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

Corrosivity is based solely on the pH analysis performed above.

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

The TPH (C10-C28) is quantitated using an alkane standard.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The GRO (C6-C10) is quantitated using an gasoline standard.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date: 02/09/22
 Time: 02/10/22 16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK65287

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: TB HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,2-Dibromoethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	25	ug/kg	50	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
2-Hexanone	ND	1300	ug/kg	50	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/kg	50	02/11/22	JLI	SW8260C
Acetone	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Benzene	ND	60	ug/kg	50	02/11/22	JLI	SW8260C
Bromochloromethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Bromoform	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Bromomethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Chlorobenzene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Chloroethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Chloromethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Cyclohexane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Ethylbenzene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
m&p-Xylene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	120	ug/kg	50	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	500	ug/kg	50	02/11/22	JLI	SW8260C
Methylacetate	ND	200	ug/kg	50	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Methylene chloride	ND	100	ug/kg	50	02/11/22	JLI	SW8260C
o-Xylene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Styrene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Toluene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Total Xylenes	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	190	ug/kg	50	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Trichloroethene	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/kg	50	02/11/22	JLI	SW8260C
Vinyl chloride	ND	25	ug/kg	50	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	95		%	50	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane (50x)	94		%	50	02/11/22	JLI	70 - 130 %
% Toluene-d8 (50x)	94		%	50	02/11/22	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	2000	ug/kg	50	02/11/22	JLI	SW8260C
Volatile Library Search	Completed				02/11/22	JLI	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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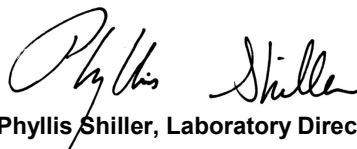
Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 18, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

02/09/22

Time

16:30

Laboratory Data

SDG ID: GCK34935
 Phoenix ID: CK65288

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: TB LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
2-Hexanone	ND	25	ug/kg	1	02/11/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/kg	1	02/11/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/11/22	JLI	SW8260C
Benzene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Bromoform	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Bromomethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Chloroethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Chloromethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Cyclohexane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Dibromochloromethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Methyl ethyl ketone	ND	30	ug/kg	1	02/11/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	02/11/22	JLI	SW8260C
Methylacetate	ND	4.0	ug/kg	1	02/11/22	JLI	SW8260C
Methylcyclohexane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Methylene chloride	ND	25	ug/kg	1	02/11/22	JLI	SW8260C
o-Xylene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Styrene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Toluene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Total Xylenes	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Trichloroethene	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/kg	1	02/11/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/11/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/11/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/11/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/11/22	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	75	ug/kg	1	02/11/22	JLI	SW8260C
Volatile Library Search	Completed				02/11/22	JLI	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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

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

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



Phyllis Shiller, Laboratory Director

February 18, 2022

Reviewed and Released by: Rashmi Makol, Project Manager

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH1

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK34935

Matrix:(soil/water) SOIL

Lab Sample ID: CK34935

Sample wt/vol: 5.13 (g/mL) g

Lab File ID: 0210_53.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 12

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH2

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK34936

Matrix:(soil/water) SOIL

Lab Sample ID: CK34936

Sample wt/vol: 5.41 (g/mL) g

Lab File ID: 0210_54.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 14

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH3

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK34937

Matrix:(soil/water) SOIL

Lab Sample ID: CK34937

Sample wt/vol: 5.27 (g/mL) g

Lab File ID: 0210_55.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 15

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH5

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK34939

Matrix:(soil/water) SOIL

Lab Sample ID: CK34939

Sample wt/vol: 5.04 (g/mL) g

Lab File ID: 0210_57.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 13

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH7

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK34934

Matrix:(soil/water) SOIL

Lab Sample ID: CK34940

Sample wt/vol: 4.96 (g/mL) g

Lab File ID: 0210_58.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 14

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: _____ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): _____ 5000

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH8

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34941

Sample wt/vol: 5.61 (g/mL) g

Lab File ID: 0210_59.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 13

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH9

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK34934

Matrix:(soil/water) SOIL

Lab Sample ID: CK34942

Sample wt/vol: 5.96 (g/mL) g

Lab File ID: 0210_60.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 15

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH10

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34943

Sample wt/vol: 5.24 (g/mL) g

Lab File ID: 0210_61.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 11

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH11

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34944

Sample wt/vol: 6.08 (g/mL) g

Lab File ID: 0210_63.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 13

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: _____ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): _____ 5000

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH12

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK34934

Matrix:(soil/water) SOIL

Lab Sample ID: CK34945

Sample wt/vol: 4.92 (g/mL) g

Lab File ID: 0210_64.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 16

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TB HL

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK65287

Sample wt/vol: 10 (g/mL) g

Lab File ID: 0210_51.D

Level: (low/med) Meth

Date Received: 02/10/22

% Moisture: not dec. 0

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 50

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 100

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TB LL

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK65288

Sample wt/vol: 5 (g/mL) g

Lab File ID: 0210_52.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 0

Date Analyzed: 02/11/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH1

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK3493!

Matrix:(soil/water) SOIL

Lab Sample ID: CK34935

Sample wt/vol: 15.3 (g/mL) g

Lab File ID: 0210_18.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 5 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.204	2500	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.926	1300	JNC
000629-73-2	1-Hexadecene	6.959	820	JN
033543-31-6	Fluoranthene, 2-methyl-	8.740	420	JN
000192-97-2	Benzof[pyrene	12.409	330	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH2

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34936

Sample wt/vol: 15.27 (g/mL) g

Lab File ID: 0210_19.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 14 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.209	1300	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.926	1600	JNC
074685-29-3	9-Eicosene, (E)-	6.959	940	JN
066552-97-4	2-Isopropyl-10-methylphenanthrene	8.702	460	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID BH3

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK34937

Matrix:(soil/water) SOIL

Lab Sample ID: CK34937

Sample wt/vol: 15.5 (g/mL) g

Lab File ID: 0210_20.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.204	1500	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.926	1800	JNC
1000130-97-9	E-15-Heptadecenal	6.959	1000	JN
000192-97-2	Benzo[e]pyrene	12.420	460	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH4

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK34938

Matrix:(soil/water) SOIL

Lab Sample ID: CK34938

Sample wt/vol: 15.15 (g/mL) g

Lab File ID: 0210_21.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.209	1600	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.926	1500	JNC
1000130-97-9	E-15-Heptadecenal	6.964	770	JN
002381-21-7	Pyrene, 1-methyl-	8.740	310	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BH5

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34939

Sample wt/vol: 15.34 (g/mL) g

Lab File ID: 0210_22.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 13 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.204	1300	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.926	1400	JNC
074685-29-3	9-Eicosene, (E)-	6.959	670	JN
	unknown hydrocarbon	7.670	320	J

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH7

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493!

Matrix:(soil/water) SOIL

Lab Sample ID: CK34940

Sample wt/vol: 15.05 (g/mL) g

Lab File ID: 0210_23.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 14 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.204	1600	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.926	1600	JNC
000629-73-2	1-Hexadecene	6.959	910	JN
000832-69-9	Phenanthrene, 1-methyl-	7.563	380	JN
002531-84-2	Phenanthrene, 2-methyl-	7.590	400	JN
000203-64-5	4H-Cyclopenta[def]phenanthrene	7.670	590	JN
000243-17-4	11H-Benzo[b]fluorene	8.740	500	JN
000192-97-2	Benzo[e]pyrene	12.420	520	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
 Aldol condensation products are produced during the extraction process.
 C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH8

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34941

Sample wt/vol: 15.03 (g/mL) g

Lab File ID: 0210_26.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 13 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 7 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.204	2600	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.926	1600	JNC
1000130-97-9	E-15-Heptadecenal	6.959	990	JN
000949-41-7	1H-Cyclopropa[l]phenanthrene, 1a,9b	7.590	320	JN
	unknown hydrocarbon	7.670	470	J
	unknown hydrocarbon	17.576	4900	J
000559-74-0	Friedelan-3-one	17.581	1200	JNA

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
 Aldol condensation products are produced during the extraction process.
 C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH9

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34942

Sample wt/vol: 15.41 (g/mL) g

Lab File ID: 0210_24.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.209	1100	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.927	780	JNC
074685-29-3	9-Eicosene, (E)-	6.959	530	JN
1000155-85-3	Cyclohexadecane, 1,2-diethyl-	8.371	490	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH10

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34943

Sample wt/vol: 15.04 (g/mL) g

Lab File ID: 0210_27.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 11 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.204	1800	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.926	1600	JNC
000629-73-2	1-Hexadecene	6.964	1300	JN
	Phenanthrene, 1-methyl- Isomer	7.568	970	JN
000832-69-9	Phenanthrene, 1-methyl-	7.590	1200	JN
035465-71-5	2-Phenyl-naphthalene	7.825	840	JN
000243-17-4	11H-Benzo[b]fluorene	8.745	1300	JN
003442-78-2	Pyrene, 2-methyl-	8.857	890	JN
	11H-Benzo[a]fluorene-11-one Isomer	9.355	1100	JN
000479-79-8	11H-Benzo[a]fluorene-11-one	9.633	910	JNA
001705-84-6	Triphenylene, 2-methyl-	10.510	1100	JN
000198-55-0	Perylene	12.061	1100	JN
000192-97-2	Benzo[e]pyrene	12.463	3100	JN
	Benzo[e]pyrene Isomer	12.778	990	JN
000189-55-9	3,4,9,10-Dibenzopyrene	17.645	1100	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH11

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34944

Sample wt/vol: 15.26 (g/mL) g

Lab File ID: 0210_17.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 13 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 15

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.298	1800	JNA
	unknown hydrocarbon	2.933	330	JNC
	unknown hydrocarbon	4.995	440	J
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.988	2200	JNC
000112-88-9	1-Octadecene	7.017	1300	JN
	unknown hydrocarbon	7.381	310	J
	unknown hydrocarbon	7.716	350	J
001599-67-3	1-Docosene	7.745	310	JN
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	8.515	400	JN
002381-21-7	Pyrene, 1-methyl-	8.785	520	JN
000479-79-8	11H-Benzo[a]fluoren-11-one	9.672	450	JNA
000593-49-7	Heptacosane	12.334	420	JN
	unknown hydrocarbon	12.422	610	J
	unknown hydrocarbon	12.592	660	J
000646-31-1	Tetracosane	14.361	430	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID BH12

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK3493

Matrix:(soil/water) SOIL

Lab Sample ID: CK34945

Sample wt/vol: 15.43 (g/mL) g

Lab File ID: 0210_24.D

Level: (low/med) Low

Date Received: 02/10/22

% Moisture: not dec. 16 decanted:(Y/N) NA

Date Extracted: 02/11/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/11/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.304	1800	JNA
	unknown hydrocarbon	5.759	450	J
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.988	1700	JNC
000112-88-9	1-Octadecene	7.017	1000	JN
000949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	7.634	370	JN
000090-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	7.716	570	JN
000483-87-4	Phenanthrene, 1,7-dimethyl-	8.109	370	JN
	unknown hydrocarbon	8.145	370	J
	unknown hydrocarbon	8.186	500	J
000243-17-4	11H-Benzo[b]fluorene	8.785	670	JN
000238-84-6	11H-Benzo[a]fluorene	8.850	400	JN
000479-79-8	11H-Benzo[a]fluoren-11-one	9.672	450	JNA
000205-99-2	Benz[e]acephenanthrylene	12.175	480	JN
	unknown hydrocarbon	12.416	370	J
000192-97-2	Benzo[e]pyrene	12.592	1000	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.



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



QA/QC Report

February 18, 2022

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCS D %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 611745 (mg/kg), QC Sample No: CK34762 2X (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	113	116	2.6	107	102	4.8	70 - 130	30

Comment:

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

QA/QC Batch 611748 (mg/L), QC Sample No: CK34935 (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	117			102			80 - 120	20
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Comment:

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

QA/QC Batch 611653 (mg/kg), QC Sample No: CK34675 (CK34942, CK34943, CK34944, CK34945)

ICP Metals - Soil

Aluminum	BRL	5.0	1760	1590	10.1	86.2	84.8	1.6	NC			75 - 125	35
Antimony	BRL	3.3	<3.9	<4.1	NC	98.1	97.9	0.2	99.7			75 - 125	35
Arsenic	BRL	0.67	<0.77	<0.82	NC	95.8	92.5	3.5	95.7			75 - 125	35
Barium	BRL	0.33	23.8	27.0	12.6	97.1	101	3.9	96.2			75 - 125	35
Beryllium	BRL	0.27	<0.31	<0.33	NC	98.6	94.5	4.2	100			75 - 125	35
Cadmium	BRL	0.33	<0.39	<0.41	NC	96.3	93.7	2.7	96.1			75 - 125	35
Calcium	BRL	5.0	625	736	16.3	93.8	90.5	3.6	0			75 - 125	35 m
Chromium	BRL	0.33	13.7	14.4	5.00	105	99.3	5.6	93.9			75 - 125	35
Cobalt	BRL	0.33	0.77	0.79	NC	101	98.6	2.4	97.9			75 - 125	35
Copper	BRL	0.67	8.6	9.61	11.1	97.0	94.0	3.1	95.6			75 - 125	35
Iron	BRL	5.0	4670	4710	0.90	96.9	93.0	4.1	NC			75 - 125	35
Lead	BRL	0.33	25.3	9.04	94.7	103	102	1.0	94.5			75 - 125	35 r
Magnesium	BRL	5.0	217	201	7.70	98.0	97.5	0.5	>130			75 - 125	35 m
Manganese	BRL	0.33	61.6	66.2	7.20	98.0	95.1	3.0	82.1			75 - 125	35
Nickel	BRL	0.33	3.39	4.19	21.1	95.6	90.7	5.3	99.3			75 - 125	35
Potassium	BRL	5.0	191	177	7.60	94.3	94.1	0.2	118			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.6	NC	96.2	93.7	2.6	96.7			75 - 125	35
Silver	BRL	0.33	<0.39	<0.41	NC	99.2	96.4	2.9	97.0			75 - 125	35
Sodium	BRL	5.0	18.1	17.3	NC	85.3	86.4	1.3	93.9			75 - 125	35
Thallium	BRL	3.0	<3.5	<3.7	NC	95.3	92.2	3.3	97.0			75 - 125	35
Vanadium	BRL	0.33	3.63	3.57	1.70	100	95.8	4.3	98.3			75 - 125	35
Zinc	BRL	0.67	17.5	20.0	13.3	102	97.4	4.6	93.3			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 611680 (mg/kg), QC Sample No: CK34762 (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941)

ICP Metals - Soil

Aluminum	BRL	5.0	319	544	52.1	81.7	86.9	6.2	>130			75 - 125	35 m,r
Antimony	BRL	3.3	<3.2	<3.3	NC	105	105	0.0	98.2			75 - 125	35
Arsenic	BRL	0.67	<0.64	<0.66	NC	95.2	101	5.9	94.2			75 - 125	35
Barium	BRL	0.33	2.59	2.94	12.7	110	113	2.7	106			75 - 125	35

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Beryllium	BRL	0.27	<0.26	<0.27	NC	107	109	1.9	102			75 - 125	35
Cadmium	BRL	0.33	<0.32	<0.33	NC	113	114	0.9	100			75 - 125	35
Calcium	BRL	5.0	32.9	86.8	90.1	102	106	3.8	112			75 - 125	35
Chromium	BRL	0.33	0.95	1.53	NC	115	114	0.9	102			75 - 125	35
Cobalt	BRL	0.33	0.40	0.58	NC	114	114	0.0	100			75 - 125	35
Copper	BRL	0.67	<0.6	1.04	NC	101	106	4.8	97.2			75 - 125	35
Iron	5.7	5.0	738	1140	42.8	91.7	99.3	8.0	NC			75 - 125	35
Lead	BRL	0.33	0.81	0.59	NC	106	118	10.7	102			75 - 125	35
Magnesium	BRL	5.0	75.0	139	59.8	97.0	103	6.0	92.9			75 - 125	35
Manganese	BRL	0.33	19.9	26.2	27.3	109	113	3.6	101			75 - 125	35
Nickel	BRL	0.33	0.56	0.89	NC	108	108	0.0	101			75 - 125	35
Potassium	BRL	5.0	50.4	53.0	5.00	92.8	100	7.5	105			75 - 125	35
Selenium	BRL	1.3	<1.3	<1.3	NC	97.7	101	3.3	91.8			75 - 125	35
Silver	BRL	0.33	<0.32	<0.33	NC	97.9	104	6.0	97.1			75 - 125	35
Sodium	BRL	5.0	8.5	21.1	NC	80.1	85.8	6.9	101			75 - 125	35
Thallium	BRL	3.0	<2.9	<3.0	NC	104	104	0.0	98.5			75 - 125	35
Vanadium	BRL	0.33	2.18	2.27	4.00	107	109	1.9	98.9			75 - 125	35
Zinc	BRL	0.67	1.2	1.82	NC	106	111	4.6	96.7			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 611750 (mg/L), QC Sample No: CK34935 (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	<0.10	<0.10	NC	114	110	3.6	107			80 - 120	20
Barium	BRL	0.10	0.67	0.95	34.6	113	109	3.6	108			80 - 120	20
Cadmium	BRL	0.050	<0.050	<0.050	NC	112	108	3.6	108			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	109	105	3.7	108			80 - 120	20
Lead	BRL	0.10	0.44	0.63	NC	116	112	3.5	109			80 - 120	20
Selenium	BRL	0.10	<0.10	<0.10	NC	116	112	3.5	110			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	117	114	2.6	108			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

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

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



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QA/QC Report

February 18, 2022

QA/QC Data

SDG I.D.: GCK34935

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 611755 (mg/Kg), QC Sample No: CK28305 5X (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)													
Reactivity Cyanide	BRL	5	<6	<5.9	NC	105						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	99.5						80 - 120	30
QA/QC Batch 611897 (mg/Kg), QC Sample No: CK33400 50X (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.56	<0.51	NC	85.6			99.0			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 611733 (PH), QC Sample No: CK34122 (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)													
pH at 25C - Soil			6.68	6.67	0.10	100						85 - 115	20
QA/QC Batch 611790 (Degree F), QC Sample No: CK34935 (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)													
Flash Point			>200	>200	NC	100						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													



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QA/QC Report

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QA/QC Data

SDG I.D.: GCK34935

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 611612 (mg/kg), QC Sample No: CK30387 (CK34935, CK34936, CK34937, CK34938, CK34939)											
Extractable Petroleum Hydrocarbons - Soil											
C9-C28	ND	10	105	107	1.9	98	87	11.9	40 - 140	25	
C9-C28 #2 Fuel / Diesel			115	102	12.0				40 - 140	25	
>C28-C40	ND	10	97	90	7.5	90	106	16.3	40 - 140	25	
C9 - Nonane	ND	3.3	77	79	2.6	71	47	40.7	40 - 140	25 m,r	
C10 - Decane	ND	3.3	95	96	1.0	91	63	36.4	40 - 140	25 r	
C12 - Dodecane	ND	3.3	101	101	0.0	100	70	35.3	40 - 140	25 r	
C14 - Tetradecane	ND	3.3	114	104	9.2	106	78	30.4	40 - 140	25 r	
C16 - Hexadecane	ND	3.3	109	112	2.7	112	86	26.3	40 - 140	25 r	
C18 - Octadecane	ND	3.3	131	135	3.0	119	105	12.5	40 - 140	25	
C20 - Eicosane	ND	3.3	112	114	1.8	77	88	13.3	40 - 140	25	
C21 - Heneicosane	ND	3.3	100	101	1.0	125	158	23.3	40 - 140	25 m	
C22 - Docosane	ND	3.3	120	122	1.7	102	110	7.5	40 - 140	25	
C24 - Tetracosane	ND	3.3	99	114	14.1	99	89	10.6	40 - 140	25	
C26 - Hexacosane	ND	3.3	103	103	0.0	90	84	6.9	40 - 140	25	
C28 - Octacosane	ND	3.3	104	105	1.0	87	76	13.5	40 - 140	25	
C30 - Tricotane	ND	3.3	103	103	0.0	86	87	1.2	40 - 140	25	
C32 - Dotriacontane	ND	3.3	100	98	2.0	98	77	24.0	40 - 140	25	
C34 - Tetratriacontane	ND	3.3	100	95	5.1	95	80	17.1	40 - 140	25	
C36 - Hexatriacontane	ND	3.3	97	86	12.0	84	61	31.7	40 - 140	25 r	
C38 - Octatriacontane	ND	3.3	90	82	9.3	84	87	3.5	40 - 140	25	
C40 - Tetracontane	ND	3.3	89	78	13.2	91	91	0.0	40 - 140	25	
% COD (surr)	81	%	102	101	1.0	71	70	1.4	40 - 140	25	
% Terphenyl (surr)	103	%	104	103	1.0	114	87	26.9	40 - 140	25 r	

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%
 Additional: MS acceptance range 50-150%.

QA/QC Batch 611704 (mg/kg), QC Sample No: CK34944 (CK34940, CK34941, CK34942, CK34943, CK34945)

Extractable Petroleum Hydrocarbons - Soil

C9-C28	ND	10	110	108	1.8	113	115	1.8	40 - 140	25
C9-C28 #2 Fuel / Diesel			111	117	5.3				40 - 140	25
>C28-C40	ND	10	118	106	10.7	118	119	0.8	40 - 140	25
C9 - Nonane	ND	3.3	73	76	4.0	84	88	4.7	40 - 140	25
C10 - Decane	ND	3.3	95	94	1.1	104	107	2.8	40 - 140	25
C12 - Dodecane	ND	3.3	122	105	15.0	119	124	4.1	40 - 140	25
C14 - Tetradecane	ND	3.3	126	110	13.6	128	132	3.1	40 - 140	25
C16 - Hexadecane	ND	3.3	131	116	12.1	131	135	3.0	40 - 140	25
C18 - Octadecane	ND	3.3	61	132	73.6	87	104	17.8	40 - 140	25 r
C20 - Eicosane	ND	3.3	128	116	9.8	115	116	0.9	40 - 140	25
C21 - Heneicosane	ND	3.3	109	106	2.8	124	113	9.3	40 - 140	25
C22 - Docosane	ND	3.3	125	123	1.6	126	122	3.2	40 - 140	25
C24 - Tetracosane	ND	3.3	112	107	4.6	111	110	0.9	40 - 140	25

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
C26 - Hexacosane	ND	3.3	114	106	7.3	111	113	1.8	40 - 140	25
C28 - Octacosane	ND	3.3	117	107	8.9	119	120	0.8	40 - 140	25
C30 - Tricotane	ND	3.3	115	104	10.0	114	115	0.9	40 - 140	25
C32 - Dotriacontane	ND	3.3	114	104	9.2	112	116	3.5	40 - 140	25
C34 - Tetratriacontane	ND	3.3	118	106	10.7	118	119	0.8	40 - 140	25
C36 - Hexatriacontane	ND	3.3	116	103	11.9	116	118	1.7	40 - 140	25
C38 - Octatriacontane	ND	3.3	118	105	11.7	118	119	0.8	40 - 140	25
C40 - Tetracontane	ND	3.3	132	113	15.5	128	129	0.8	40 - 140	25
% COD (surr)	110	%	117	107	8.9	101	104	2.9	40 - 140	25
% Terphenyl (surr)	116	%	118	104	12.6	115	119	3.4	40 - 140	25

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%
Additional: MS acceptance range 50-150%.

QA/QC Batch 612073 (mg/kg), QC Sample No: CK66108 (CK34944)

Extractable Petroleum Hydrocarbons - Soil

C9-C28	ND	10	130	121	7.2				40 - 140	25
C9-C28 #2 Fuel / Diesel			130	125	3.9				40 - 140	25
>C28-C40	ND	10	102	103	1.0				40 - 140	25
C9 - Nonane	ND	3.3	96	79	19.4				40 - 140	25
C10 - Decane	ND	3.3	115	102	12.0				40 - 140	25
C12 - Dodecane	ND	3.3	138	131	5.2				40 - 140	25
C14 - Tetradecane	ND	3.3	140	134	4.4				40 - 140	25
C16 - Hexadecane	ND	3.3	150	144	4.1				40 - 140	25
C18 - Octadecane	ND	3.3	102	101	1.0				40 - 140	25
C20 - Eicosane	ND	3.3	145	137	5.7				40 - 140	25
C21 - Heneicosane	ND	3.3	139	129	7.5				40 - 140	25
C22 - Docosane	ND	3.3	134	127	5.4				40 - 140	25
C24 - Tetracosane	ND	3.3	133	122	8.6				40 - 140	25
C26 - Hexacosane	ND	3.3	134	123	8.6				40 - 140	25
C28 - Octacosane	ND	3.3	135	124	8.5				40 - 140	25
C30 - Tricotane	ND	3.3	129	120	7.2				40 - 140	25
C32 - Dotriacontane	ND	3.3	119	114	4.3				40 - 140	25
C34 - Tetratriacontane	ND	3.3	107	107	0.0				40 - 140	25
C36 - Hexatriacontane	ND	3.3	92	96	4.3				40 - 140	25
C38 - Octatriacontane	ND	3.3	82	89	8.2				40 - 140	25
C40 - Tetracontane	ND	3.3	80	90	11.8				40 - 140	25
% COD (surr)	116	%	140	133	5.1				40 - 140	25
% Terphenyl (surr)	123	%	133	127	4.6				40 - 140	25

Comment:

The MS/MSD could not be reported due to the presence of EPH in the original sample.

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%
Additional: MS acceptance range 50-150%.

QA/QC Batch 611675 (mg/Kg), QC Sample No: CK34935 (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	81	79	2.5	74	75	1.3	30 - 130	30
% COD (surr)	90	%	109	81	29.5	121	78	43.2	50 - 150	30
% Terphenyl (surr)	90	%	90	80	11.8	80	81	1.2	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Data

SDG I.D.: GCK34935

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

QA/QC Batch 611949 (mg/Kg), QC Sample No: CK34944 (CK34935 (50X) , CK34936 (50X) , CK34937 (50X) , CK34938 (50X) , CK34939 (50X) , CK34940 (50X) , CK34941 (50X) , CK34942 (50X) , CK34943 (50X) , CK34944 (50X) , CK34945 (50X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	0.10	85	85	0.0	79	74	6.5	70 - 130	30
% 2,5-Dibromotoluene (FID)	94	%	95	89	6.5	90	85	5.7	70 - 130	30

QA/QC Batch 611760 (ug/L), QC Sample No: CK33279 10X (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)

Chlorinated Herbicides

2,4,5-TP (Silvex)	ND	2.5	92	89	3.3				40 - 140	20
2,4-D	ND	5.0	96	95	1.0				40 - 140	20
% DCAA (Surrogate Rec)	143	%	151	152	0.7				30 - 150	20
% DCAA (Surrogate Rec) (Confirm)	147	%	152	151	0.7				30 - 150	20

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 611679 (ug/Kg), QC Sample No: CK34762 10X (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	46	69	40.0	53	42	23.2	40 - 140	30	r
2,4,5-TP (Silvex)	ND	130	46	71	42.7	62	50	21.4	40 - 140	30	r
2,4-D	ND	250	45	73	47.5	65	47	32.1	40 - 140	30	r
2,4-DB	ND	2500	41	65	45.3	46	34	30.0	40 - 140	30	r
Dalapon	ND	130	35	54	42.7	58	53	9.0	40 - 140	30	l,r
Dicamba	ND	130	49	71	36.7	84	73	14.0	40 - 140	30	r
Dichloroprop	ND	130	48	82	52.3	71	55	25.4	40 - 140	30	r
Dinoseb	ND	130	48	75	43.9	72	65	10.2	40 - 140	30	r
% DCAA (Surrogate Rec)	91	%	65	90	32.3	87	70	21.7	30 - 150	30	r
% DCAA (Surrogate Rec) (Confirm)	85	%	67	86	24.8	84	73	14.0	30 - 150	30	

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 611666 (ug/Kg), QC Sample No: CK34762 2X (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	86	83	3.6	69	74	7.0	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	94	91	3.2	83	86	3.6	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	76	%	99	93	6.3	86	95	9.9	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	79	%	101	97	4.0	87	93	6.7	30 - 150	30
% TCMX (Surrogate Rec)	66	%	87	80	8.4	66	74	11.4	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	65	%	86	80	7.2	67	76	12.6	30 - 150	30

QA/QC Batch 611667 (ug/Kg), QC Sample No: CK34762 2X (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)

Pesticides - Soil

4,4' -DDD	ND	1.7	64	82	24.7	73	72	1.4	40 - 140	30
4,4' -DDE	ND	1.7	63	78	21.3	70	69	1.4	40 - 140	30
4,4' -DDT	ND	1.7	71	91	24.7	83	76	8.8	40 - 140	30

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
a-BHC	ND	1.0	61	70	13.7	65	60	8.0	40 - 140	30
a-Chlordane	ND	3.3	54	71	27.2	67	61	9.4	40 - 140	30
Aldrin	ND	1.0	65	78	18.2	70	62	12.1	40 - 140	30
b-BHC	ND	1.0	63	78	21.3	71	67	5.8	40 - 140	30
Chlordane	ND	33	63	76	18.7	69	65	6.0	40 - 140	30
d-BHC	ND	3.3	44	55	22.2	48	44	8.7	40 - 140	30
Dieldrin	ND	1.0	65	81	21.9	76	69	9.7	40 - 140	30
Endosulfan I	ND	3.3	55	72	26.8	65	59	9.7	40 - 140	30
Endosulfan II	ND	3.3	68	83	19.9	74	71	4.1	40 - 140	30
Endosulfan sulfate	ND	3.3	60	77	24.8	69	66	4.4	40 - 140	30
Endrin	ND	3.3	62	75	19.0	69	64	7.5	40 - 140	30
Endrin aldehyde	ND	3.3	58	77	28.1	68	67	1.5	40 - 140	30
Endrin ketone	ND	3.3	62	79	24.1	71	69	2.9	40 - 140	30
g-BHC	ND	1.0	65	76	15.6	75	64	15.8	40 - 140	30
g-Chlordane	ND	3.3	63	76	18.7	69	65	6.0	40 - 140	30
Heptachlor	ND	3.3	61	74	19.3	69	59	15.6	40 - 140	30
Heptachlor epoxide	ND	3.3	63	76	18.7	70	62	12.1	40 - 140	30
Methoxychlor	ND	3.3	58	73	22.9	66	61	7.9	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	77	%	64	81	23.4	76	68	11.1	30 - 150	30
% DCBP (Confirmation)	66	%	56	70	22.2	66	63	4.7	30 - 150	30
% TCMX	53	%	55	68	21.1	65	58	11.4	30 - 150	30
% TCMX (Confirmation)	60	%	56	63	11.8	58	54	7.1	30 - 150	30

QA/QC Batch 612113 (ug/L), QC Sample No: CK34935 10X (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)

Pesticides

4,4' -DDD	ND	0.25	77	89	14.5	87			40 - 140	20
4,4' -DDE	ND	0.25	71	81	13.2	80			40 - 140	20
4,4' -DDT	ND	0.25	71	81	13.2	81			40 - 140	20
a-BHC	ND	0.15	71	81	13.2	82			40 - 140	20
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20
Aldrin	ND	0.15	68	78	13.7	78			40 - 140	20
b-BHC	ND	0.15	65	73	11.6	73			40 - 140	20
Chlordane	ND	5.0	72	82	13.0	82			40 - 140	20
d-BHC	ND	0.50	73	85	15.2	85			40 - 140	20
Dieldrin	ND	0.15	75	86	13.7	86			40 - 140	20
Endosulfan I	ND	0.50	72	82	13.0	76			40 - 140	20
Endosulfan II	ND	0.50	69	79	13.5	81			40 - 140	20
Endosulfan sulfate	ND	0.50	70	79	12.1	79			40 - 140	20
Endrin	ND	0.50	80	90	11.8	89			40 - 140	20
Endrin aldehyde	ND	0.50	60	69	14.0	68			40 - 140	20
g-BHC	ND	0.15	71	81	13.2	80			40 - 140	20
Heptachlor	ND	0.50	68	77	12.4	78			40 - 140	20
Heptachlor epoxide	ND	0.50	66	76	14.1	76			40 - 140	20
Methoxychlor	ND	0.50	70	83	17.0	78			40 - 140	20
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20
% DCBP	82	%	77	82	6.3	80			30 - 150	20
% DCBP (Confirmation)	88	%	75	81	7.7	74			30 - 150	20
% TCMX	63	%	62	69	10.7	70			30 - 150	20
% TCMX (Confirmation)	66	%	64	72	11.8	71			30 - 150	20

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 611674 (ug/kg), QC Sample No: CK34309 (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943)											
Semivolatiles - Soil											
1,1-Biphenyl	ND	230	71	71	0.0	68	67	1.5	40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230	76	77	1.3	78	77	1.3	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	97	96	1.0	91	90	1.1	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	79	78	1.3	84	84	0.0	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	84	81	3.6	81	79	2.5	30 - 130	30	
2,4-Dichlorophenol	ND	130	81	80	1.2	80	80	0.0	30 - 130	30	
2,4-Dimethylphenol	ND	230	85	85	0.0	84	82	2.4	30 - 130	30	
2,4-Dinitrophenol	ND	230	<10	<10	NC	94	57	49.0	30 - 130	30	I,r
2,4-Dinitrotoluene	ND	130	93	99	6.3	90	89	1.1	30 - 130	30	
2,6-Dinitrotoluene	ND	130	91	95	4.3	86	86	0.0	40 - 140	30	
2-Chloronaphthalene	ND	230	75	74	1.3	73	71	2.8	40 - 140	30	
2-Chlorophenol	ND	230	76	77	1.3	69	71	2.9	30 - 130	30	
2-Methylnaphthalene	ND	230	73	73	0.0	74	72	2.7	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	85	83	2.4	82	79	3.7	40 - 140	30	
2-Nitroaniline	ND	330	154	167	8.1	141	142	0.7	40 - 140	30	I,m
2-Nitrophenol	ND	230	86	87	1.2	78	81	3.8	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	79	79	0.0	78	75	3.9	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	122	119	2.5	111	109	1.8	40 - 140	30	
3-Nitroaniline	ND	330	109	112	2.7	93	94	1.1	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	13	18	32.3	136	76	56.6	30 - 130	30	I,m,r
4-Bromophenyl phenyl ether	ND	230	80	79	1.3	80	79	1.3	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	92	95	3.2	94	92	2.2	30 - 130	30	
4-Chloroaniline	ND	230	99	103	4.0	86	92	6.7	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	88	90	2.2	87	86	1.2	40 - 140	30	
4-Nitroaniline	ND	230	88	92	4.4	84	81	3.6	40 - 140	30	
4-Nitrophenol	ND	230	77	77	0.0	87	87	0.0	30 - 130	30	
Acenaphthene	ND	230	80	80	0.0	77	78	1.3	30 - 130	30	
Acenaphthylene	ND	130	72	71	1.4	70	69	1.4	40 - 140	30	
Acetophenone	ND	230	72	71	1.4	66	68	3.0	40 - 140	30	
Anthracene	ND	230	81	83	2.4	83	80	3.7	40 - 140	30	
Atrazine	ND	130	64	65	1.6	63	63	0.0	40 - 140	30	
Benz(a)anthracene	ND	230	82	83	1.2	83	79	4.9	40 - 140	30	
Benzaldehyde	ND	230	48	42	13.3	21	23	9.1	40 - 140	30	m
Benzo(a)pyrene	ND	130	77	77	0.0	75	72	4.1	40 - 140	30	
Benzo(b)fluoranthene	ND	160	81	82	1.2	79	77	2.6	40 - 140	30	
Benzo(ghi)perylene	ND	230	78	78	0.0	84	78	7.4	40 - 140	30	
Benzo(k)fluoranthene	ND	230	81	79	2.5	76	76	0.0	40 - 140	30	
Benzyl butyl phthalate	ND	230	83	84	1.2	90	89	1.1	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	66	67	1.5	60	64	6.5	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	51	50	2.0	42	47	11.2	40 - 140	30	
Bis(2-chloroisopropyl)ether	ND	230	63	63	0.0	54	59	8.8	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	83	84	1.2	84	83	1.2	40 - 140	30	
Caprolactam	ND	230	89	99	10.6	85	37	78.7	40 - 140	30	m,r
Carbazole	ND	230	84	85	1.2	84	81	3.6	40 - 140	30	
Chrysene	ND	230	83	84	1.2	83	80	3.7	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	83	83	0.0	89	84	5.8	40 - 140	30	
Dibenzofuran	ND	230	80	80	0.0	78	78	0.0	40 - 140	30	
Diethyl phthalate	ND	230	95	101	6.1	89	89	0.0	40 - 140	30	
Dimethylphthalate	ND	230	88	90	2.2	80	78	2.5	40 - 140	30	

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Di-n-butylphthalate	ND	670	89	91	2.2	89	89	0.0	40 - 140	30
Di-n-octylphthalate	ND	230	80	79	1.3	79	77	2.6	40 - 140	30
Fluoranthene	ND	230	86	85	1.2	91	88	3.4	40 - 140	30
Fluorene	ND	230	89	91	2.2	89	88	1.1	40 - 140	30
Hexachlorobenzene	ND	130	92	88	4.4	88	87	1.1	40 - 140	30
Hexachlorobutadiene	ND	230	73	73	0.0	64	70	9.0	40 - 140	30
Hexachlorocyclopentadiene	ND	230	49	49	0.0	15	10	40.0	40 - 140	30
Hexachloroethane	ND	130	70	70	0.0	54	62	13.8	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	88	88	0.0	88	82	7.1	40 - 140	30
Isophorone	ND	130	64	64	0.0	59	61	3.3	40 - 140	30
Naphthalene	ND	230	69	68	1.5	64	69	7.5	40 - 140	30
Nitrobenzene	ND	130	79	78	1.3	74	77	4.0	40 - 140	30
N-Nitrosodimethylamine	ND	230	46	43	6.7	30	37	20.9	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	79	80	1.3	73	75	2.7	40 - 140	30
N-Nitrosodiphenylamine	ND	130	87	90	3.4	96	93	3.2	40 - 140	30
Pentachlorophenol	ND	230	48	51	6.1	119	91	26.7	30 - 130	30
Phenanthrene	ND	130	82	82	0.0	81	79	2.5	40 - 140	30
Phenol	ND	230	81	79	2.5	72	73	1.4	30 - 130	30
Pyrene	ND	230	84	86	2.4	89	86	3.4	30 - 130	30
% 2,4,6-Tribromophenol	97	%	96	97	1.0	92	89	3.3	30 - 130	30
% 2-Fluorobiphenyl	76	%	72	69	4.3	69	67	2.9	30 - 130	30
% 2-Fluorophenol	63	%	62	61	1.6	51	58	12.8	30 - 130	30
% Nitrobenzene-d5	71	%	76	75	1.3	71	73	2.8	30 - 130	30
% Phenol-d5	69	%	74	73	1.4	69	69	0.0	30 - 130	30
% Terphenyl-d14	98	%	86	89	3.4	84	82	2.4	30 - 130	30

Comment:

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

QA/QC Batch 611822 (ug/L), QC Sample No: CK34935 (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	68	71	4.3	73			40 - 140	20
2,4,5-Trichlorophenol	ND	17	91	90	1.1	95			40 - 140	20
2,4,6-Trichlorophenol	ND	17	94	94	0.0	98			30 - 130	20
2,4-Dinitrotoluene	ND	58	97	93	4.2	97			30 - 130	20
2-Methylphenol (o-cresol)	ND	17	83	96	14.5	95			40 - 140	20
3&4-Methylphenol (m&p-cresol)	ND	17	92	91	1.1	87			30 - 130	20
Hexachlorobenzene	ND	58	79	80	1.3	82			40 - 140	20
Hexachlorobutadiene	ND	58	66	68	3.0	79			40 - 140	20
Hexachloroethane	ND	58	63	68	7.6	68			40 - 140	20
Nitrobenzene	ND	58	85	90	5.7	100			40 - 140	20
Pentachlorophenol	ND	58	63	62	1.6	71			30 - 130	20
Pyridine	ND	83	47	48	2.1	52			40 - 140	20
% 2,4,6-Tribromophenol	83	%	88	87	1.1	86			15 - 110	20
% 2-Fluorobiphenyl	71	%	87	84	3.5	90			30 - 130	20
% 2-Fluorophenol	52	%	61	65	6.3	68			15 - 110	20
% Nitrobenzene-d5	67	%	82	84	2.4	85			30 - 130	20
% Phenol-d5	52	%	61	66	7.9	64			15 - 110	20
% Terphenyl-d14	84	%	89	88	1.1	92			30 - 130	20

Comment:

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

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 611683 (ug/kg), QC Sample No: CK34944 (CK34944, CK34945)											
Semivolatiles - Soil											
1,1-Biphenyl	ND	230	71	70	1.4	64			40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230	67	65	3.0	68			40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	75	66	12.8	77			30 - 130	30	
2,4,5-Trichlorophenol	ND	230	82	80	2.5	79			40 - 140	30	
2,4,6-Trichlorophenol	ND	130	80	82	2.5	79			30 - 130	30	
2,4-Dichlorophenol	ND	130	82	79	3.7	84			30 - 130	30	
2,4-Dimethylphenol	ND	230	78	75	3.9	73			30 - 130	30	
2,4-Dinitrophenol	ND	230	<10	<10	NC	53			30 - 130	30	
2,4-Dinitrotoluene	ND	130	85	81	4.8	82			30 - 130	30	
2,6-Dinitrotoluene	ND	130	81	79	2.5	80			40 - 140	30	
2-Chloronaphthalene	ND	230	76	73	4.0	70			40 - 140	30	
2-Chlorophenol	ND	230	69	63	9.1	63			30 - 130	30	
2-Methylnaphthalene	ND	230	73	69	5.6	71			40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	82	73	11.6	76			40 - 140	30	
2-Nitroaniline	ND	330	119	111	7.0	101			40 - 140	30	
2-Nitrophenol	ND	230	78	74	5.3	63			40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	80	68	16.2	74			30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	90	80	11.8	49			40 - 140	30	
3-Nitroaniline	ND	330	96	91	5.3	81			40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	15	24	46.2	61			30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	79	75	5.2	72			40 - 140	30	
4-Chloro-3-methylphenol	ND	230	85	79	7.3	88			30 - 130	30	
4-Chloroaniline	ND	230	79	70	12.1	68			40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	79	71	10.7	75			40 - 140	30	
4-Nitroaniline	ND	230	83	78	6.2	79			40 - 140	30	
4-Nitrophenol	ND	230	93	90	3.3	103			30 - 130	30	
Acenaphthene	ND	230	81	76	6.4	76			30 - 130	30	
Acenaphthylene	ND	130	68	68	0.0	64			40 - 140	30	
Acetophenone	ND	230	68	58	15.9	57			40 - 140	30	
Anthracene	ND	230	84	81	3.6	76			40 - 140	30	
Atrazine	ND	130	69	60	14.0	58			40 - 140	30	
Benz(a)anthracene	ND	230	82	77	6.3	71			40 - 140	30	
Benzaldehyde	ND	230	56	61	8.5	46			40 - 140	30	
Benzo(a)pyrene	ND	130	81	74	9.0	65			40 - 140	30	
Benzo(b)fluoranthene	ND	160	85	80	6.1	66			40 - 140	30	
Benzo(ghi)perylene	ND	230	86	78	9.8	66			40 - 140	30	
Benzo(k)fluoranthene	ND	230	79	76	3.9	64			40 - 140	30	
Benzyl butyl phthalate	ND	230	85	80	6.1	77			40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	74	71	4.1	64			40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	54	48	11.8	43			40 - 140	30	
Bis(2-chloroisopropyl)ether	ND	230	54	48	11.8	46			40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	89	79	11.9	80			40 - 140	30	
Caprolactam	ND	230	87	87	0.0	89			40 - 140	30	
Carbazole	ND	230	87	81	7.1	75			40 - 140	30	
Chrysene	ND	230	87	82	5.9	76			40 - 140	30	
Dibenz(a,h)anthracene	ND	130	84	77	8.7	63			40 - 140	30	
Dibenzofuran	ND	230	75	72	4.1	71			40 - 140	30	
Diethyl phthalate	ND	230	79	76	3.9	73			40 - 140	30	
Dimethylphthalate	ND	230	78	76	2.6	71			40 - 140	30	
Di-n-butylphthalate	ND	670	87	81	7.1	77			40 - 140	30	

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Di-n-octylphthalate	ND	230	87	79	9.6	78			40 - 140	30
Fluoranthene	ND	230	84	78	7.4	60			40 - 140	30
Fluorene	ND	230	79	77	2.6	79			40 - 140	30
Hexachlorobenzene	ND	130	79	76	3.9	75			40 - 140	30
Hexachlorobutadiene	ND	230	62	58	6.7	52			40 - 140	30
Hexachlorocyclopentadiene	ND	230	55	52	5.6	14			40 - 140	30 m
Hexachloroethane	ND	130	59	48	20.6	44			40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	94	85	10.1	68			40 - 140	30
Isophorone	ND	130	66	64	3.1	56			40 - 140	30
Naphthalene	ND	230	68	63	7.6	60			40 - 140	30
Nitrobenzene	ND	130	69	61	12.3	64			40 - 140	30
N-Nitrosodimethylamine	ND	230	55	46	17.8	35			40 - 140	30 m
N-Nitrosodi-n-propylamine	ND	130	71	65	8.8	62			40 - 140	30
N-Nitrosodiphenylamine	ND	130	81	77	5.1	75			40 - 140	30
Pentachlorophenol	ND	230	49	44	10.8	69			30 - 130	30
Phenanthrene	ND	130	81	77	5.1	68			40 - 140	30
Phenol	ND	230	85	77	9.9	74			30 - 130	30
Pyrene	ND	230	84	77	8.7	69			30 - 130	30
% 2,4,6-Tribromophenol	81	%	82	73	11.6	77			30 - 130	30
% 2-Fluorobiphenyl	73	%	72	72	0.0	63			30 - 130	30
% 2-Fluorophenol	62	%	68	60	12.5	54			30 - 130	30
% Nitrobenzene-d5	61	%	66	59	11.2	57			30 - 130	30
% Phenol-d5	68	%	73	62	16.3	63			30 - 130	30
% Terphenyl-d14	76	%	83	74	11.5	72			30 - 130	30

Comment:

This batch consists of the blank, LCS, LCSD, and MS.

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

QA/QC Batch 612198 (ug/L), QC Sample No: CK34940 (CK34935 (10X) , CK34936 (10X) , CK34937 (10X) , CK34938 (10X) , CK34939 (10X) , CK34940 (10X) , CK34941 (10X) , CK34942 (10X) , CK34943 (10X) , CK34944 (10X) , CK34945 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	101	102	1.0	107	107	0.0	70 - 130	30
1,2-Dichloroethane	ND	0.60	102	101	1.0	103	106	2.9	70 - 130	30
Benzene	ND	0.70	103	102	1.0	104	107	2.8	70 - 130	30
Carbon tetrachloride	ND	5.0	120	120	0.0	122	125	2.4	70 - 130	30
Chlorobenzene	ND	1.0	104	104	0.0	106	108	1.9	70 - 130	30
Chloroform	ND	5.0	103	102	1.0	107	108	0.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	98	95	3.1	103	104	1.0	70 - 130	30
Tetrachloroethene	ND	1.0	105	104	1.0	108	109	0.9	70 - 130	30
Trichloroethene	ND	5.0	105	105	0.0	108	110	1.8	70 - 130	30
Vinyl chloride	ND	5.0	105	107	1.9	109	113	3.6	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	98	1.0	98	98	0.0	70 - 130	30
% Bromofluorobenzene	95	%	103	102	1.0	102	102	0.0	70 - 130	30
% Dibromofluoromethane	103	%	99	100	1.0	104	104	0.0	70 - 130	30
% Toluene-d8	99	%	101	100	1.0	100	100	0.0	70 - 130	30

Comment:

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

QA/QC Batch 611794 (ug/kg), QC Sample No: CK34944 (CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945, CK65288)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	92	90	2.2	98	99	1.0	70 - 130	30
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QA/QC Data

SDG I.D.: GCK34935

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
1,1,2,2-Tetrachloroethane	ND	3.0	101	102	1.0	85	90	5.7	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	95	95	0.0	89	91	2.2	70 - 130	30	
1,1-Dichloroethane	ND	5.0	96	95	1.0	102	88	14.7	70 - 130	30	
1,1-Dichloroethene	ND	5.0	114	111	2.7	92	105	13.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	106	105	0.9	46	49	6.3	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	5.0	105	105	0.0	47	49	4.2	70 - 130	30	m
1,2-Dibromo-3-chloropropane	ND	5.0	121	120	0.8	90	99	9.5	70 - 130	30	
1,2-Dibromoethane	ND	5.0	103	102	1.0	90	92	2.2	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	105	105	0.0	68	71	4.3	70 - 130	30	m
1,2-Dichloroethane	ND	5.0	99	99	0.0	92	92	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	96	97	1.0	91	91	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	100	100	0.0	67	69	2.9	70 - 130	30	m
1,4-Dichlorobenzene	ND	5.0	104	104	0.0	67	68	1.5	70 - 130	30	m
1,4-dioxane	ND	100	110	113	2.7	110	94	15.7	70 - 130	30	
2-Hexanone	ND	25	97	95	2.1	90	94	4.3	70 - 130	30	
4-Methyl-2-pentanone	ND	25	99	97	2.0	97	99	2.0	70 - 130	30	
Acetone	ND	10	98	97	1.0	75	94	22.5	70 - 130	30	
Benzene	ND	1.0	98	97	1.0	92	92	0.0	70 - 130	30	
Bromochloromethane	ND	5.0	86	86	0.0	87	90	3.4	70 - 130	30	
Bromodichloromethane	ND	5.0	100	100	0.0	91	93	2.2	70 - 130	30	
Bromoform	ND	5.0	110	108	1.8	91	95	4.3	70 - 130	30	
Bromomethane	ND	5.0	113	101	11.2	95	99	4.1	70 - 130	30	
Carbon Disulfide	ND	5.0	107	103	3.8	81	91	11.6	70 - 130	30	
Carbon tetrachloride	ND	5.0	98	98	0.0	97	100	3.0	70 - 130	30	
Chlorobenzene	ND	5.0	104	102	1.9	85	87	2.3	70 - 130	30	
Chloroethane	ND	5.0	121	118	2.5	91	99	8.4	70 - 130	30	
Chloroform	ND	5.0	83	82	1.2	89	90	1.1	70 - 130	30	
Chloromethane	ND	5.0	100	100	0.0	96	96	0.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	87	86	1.2	89	92	3.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	99	99	0.0	87	88	1.1	70 - 130	30	
Cyclohexane	ND	5.0	92	90	2.2	93	95	2.1	70 - 130	30	
Dibromochloromethane	ND	3.0	108	106	1.9	92	96	4.3	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	111	108	2.7	107	106	0.9	70 - 130	30	
Ethylbenzene	ND	1.0	105	104	1.0	92	93	1.1	70 - 130	30	
Isopropylbenzene	ND	1.0	110	108	1.8	93	94	1.1	70 - 130	30	
m&p-Xylene	ND	2.0	101	101	0.0	87	89	2.3	70 - 130	30	
Methyl ethyl ketone	ND	5.0	83	79	4.9	82	85	3.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	104	102	1.9	103	96	7.0	70 - 130	30	
Methylacetate	ND	5.0	115	115	0.0	89	114	24.6	70 - 130	30	
Methylcyclohexane	ND	5.0	103	101	2.0	92	93	1.1	70 - 130	30	
Methylene chloride	ND	5.0	108	106	1.9	81	92	12.7	70 - 130	30	
o-Xylene	ND	2.0	101	100	1.0	86	88	2.3	70 - 130	30	
Styrene	ND	5.0	101	100	1.0	79	81	2.5	70 - 130	30	
Tetrachloroethene	ND	5.0	99	99	0.0	90	90	0.0	70 - 130	30	
Toluene	ND	1.0	99	98	1.0	91	90	1.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	112	110	1.8	85	99	15.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	103	102	1.0	86	87	1.2	70 - 130	30	
Trichloroethene	ND	5.0	100	99	1.0	95	95	0.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	119	115	3.4	99	109	9.6	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	106	104	1.9	85	97	13.2	70 - 130	30	
Vinyl chloride	ND	5.0	115	110	4.4	105	105	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	101	101	0.0	101	102	1.0	70 - 130	30	
% Bromofluorobenzene	98	%	99	100	1.0	100	100	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Dibromofluoromethane	88	%	86	83	3.6	98	99	1.0	70 - 130	30
% Toluene-d8	93	%	99	100	1.0	100	100	0.0	70 - 130	30

Comment:

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

QA/QC Batch 611794H (ug/kg), QC Sample No: CK34944 50X (CK65287 (50X))

Volatiles - Soil (High Level)

1,1,1-Trichloroethane	ND	250	91	98	7.4	105	106	0.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	110	109	0.9	123	123	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	250	103	103	0.0	113	114	0.9	70 - 130	30
1,1-Dichloroethane	ND	250	99	96	3.1	100	99	1.0	70 - 130	30
1,1-Dichloroethene	ND	250	110	109	0.9	110	109	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	122	122	0.0	121	121	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	121	121	0.0	119	118	0.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	121	118	2.5	141	142	0.7	70 - 130	30 m
1,2-Dibromoethane	ND	250	110	109	0.9	122	120	1.7	70 - 130	30
1,2-Dichlorobenzene	ND	250	116	116	0.0	120	119	0.8	70 - 130	30
1,2-Dichloroethane	ND	250	105	105	0.0	117	115	1.7	70 - 130	30
1,2-Dichloropropane	ND	250	104	105	1.0	111	111	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	250	111	111	0.0	113	111	1.8	70 - 130	30
1,4-Dichlorobenzene	ND	250	117	118	0.9	118	117	0.9	70 - 130	30
1,4-dioxane	ND	5000	120	117	2.5	130	133	2.3	70 - 130	30 m
2-Hexanone	ND	1300	100	101	1.0	123	124	0.8	70 - 130	30
4-Methyl-2-pentanone	ND	1300	102	103	1.0	126	127	0.8	70 - 130	30
Acetone	ND	500	83	86	3.6	101	100	1.0	70 - 130	30
Benzene	ND	250	103	105	1.9	111	110	0.9	70 - 130	30
Bromochloromethane	ND	250	89	90	1.1	108	109	0.9	70 - 130	30
Bromodichloromethane	ND	250	102	101	1.0	109	107	1.9	70 - 130	30
Bromoform	ND	250	106	100	5.8	115	113	1.8	70 - 130	30
Bromomethane	ND	250	76	84	10.0	75	86	13.7	70 - 130	30
Carbon Disulfide	ND	250	105	103	1.9	104	103	1.0	70 - 130	30
Carbon tetrachloride	ND	250	90	87	3.4	94	96	2.1	70 - 130	30
Chlorobenzene	ND	250	113	114	0.9	118	117	0.9	70 - 130	30
Chloroethane	ND	250	25	25	0.0	26	26	0.0	70 - 130	30 l,m
Chloroform	ND	250	86	84	2.4	105	104	1.0	70 - 130	30
Chloromethane	ND	250	107	105	1.9	112	111	0.9	70 - 130	30
cis-1,2-Dichloroethene	ND	250	90	89	1.1	108	112	3.6	70 - 130	30
cis-1,3-Dichloropropene	ND	250	104	102	1.9	106	106	0.0	70 - 130	30
Cyclohexane	ND	250	94	93	1.1	109	109	0.0	70 - 130	30
Dibromochloromethane	ND	150	108	106	1.9	115	112	2.6	70 - 130	30
Dichlorodifluoromethane	ND	250	113	114	0.9	119	119	0.0	70 - 130	30
Ethylbenzene	ND	250	114	115	0.9	117	116	0.9	70 - 130	30
Isopropylbenzene	ND	250	117	117	0.0	120	118	1.7	70 - 130	30
m&p-Xylene	ND	250	110	111	0.9	113	112	0.9	70 - 130	30
Methyl ethyl ketone	ND	250	80	85	6.1	112	113	0.9	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	110	108	1.8	115	117	1.7	70 - 130	30
Methylacetate	ND	250	120	113	6.0	134	132	1.5	70 - 130	30 m
Methylcyclohexane	ND	250	107	109	1.9	116	115	0.9	70 - 130	30
Methylene chloride	ND	250	112	110	1.8	108	106	1.9	70 - 130	30
o-Xylene	ND	250	111	110	0.9	113	112	0.9	70 - 130	30
Styrene	ND	250	111	111	0.0	114	114	0.0	70 - 130	30
Tetrachloroethene	ND	250	107	110	2.8	112	111	0.9	70 - 130	30

QA/QC Data

SDG I.D.: GCK34935

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Toluene	ND	250	107	108	0.9	112	113	0.9	70 - 130	30
trans-1,2-Dichloroethene	ND	250	116	114	1.7	115	117	1.7	70 - 130	30
trans-1,3-Dichloropropene	ND	250	105	105	0.0	109	108	0.9	70 - 130	30
Trichloroethene	ND	250	107	108	0.9	111	112	0.9	70 - 130	30
Trichlorofluoromethane	ND	250	25	24	4.1	26	25	3.9	70 - 130	30
Trichlorotrifluoroethane	ND	250	102	103	1.0	102	104	1.9	70 - 130	30
Vinyl chloride	ND	250	119	119	0.0	122	124	1.6	70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	101	100	1.0	102	101	1.0	70 - 130	30
% Bromofluorobenzene	98	%	100	100	0.0	101	101	0.0	70 - 130	30
% Dibromofluoromethane	83	%	83	84	1.2	95	96	1.0	70 - 130	30
% Toluene-d8	93	%	100	100	0.0	101	101	0.0	70 - 130	30

l,m

Comment:

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


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

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

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

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

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


 Phyllis Shiller, Laboratory Director
 February 18, 2022

Friday, February 18, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCK34935 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK34935	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	54.9	0.7	50	50	mg/kg
CK34935	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.31	0.15	0.81	0.81	mg/Kg
CK34935	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.31	0.15	0.18	0.18	mg/Kg
CK34935	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	252	0.34	63	63	mg/Kg
CK34936	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.15	0.03	0.81	0.81	mg/Kg
CK34936	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.15	0.03	0.18	0.18	mg/Kg
CK34937	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	540	270	500	500	ug/Kg
CK34937	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	540	270	500	500	ug/Kg
CK34937	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.6	2.3	3.3	3.3	ug/Kg
CK34937	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.90	0.03	0.81	0.81	mg/Kg
CK34937	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.90	0.03	0.18	0.18	mg/Kg
CK34937	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	80.9	0.35	63	63	mg/Kg
CK34938	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	53.2	0.7	50	50	mg/kg
CK34938	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.01	0.03	0.81	0.81	mg/Kg
CK34938	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.01	0.03	0.18	0.18	mg/Kg
CK34938	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	365	0.36	63	63	mg/Kg
CK34938	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	119	0.7	109	109	mg/Kg
CK34939	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.6	2.3	3.3	3.3	ug/Kg
CK34939	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.44	0.03	0.18	0.18	mg/Kg
CK34939	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	672	0.34	400	400	mg/Kg
CK34939	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	672	0.34	63	63	mg/Kg
CK34939	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	5.11	0.10	5	5	mg/L
CK34939	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	185	0.7	109	109	mg/Kg
CK34940	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	630	270	500	500	ug/Kg
CK34940	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	270	1000	1000	ug/Kg
CK34940	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
CK34940	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	810	270	800	800	ug/Kg
CK34940	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
CK34940	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	630	270	500	500	ug/Kg
CK34940	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.42	0.03	0.18	0.18	mg/Kg
CK34940	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	77.9	0.37	63	63	mg/Kg
CK34941	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	670	270	500	500	ug/Kg
CK34941	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	270	1000	1000	ug/Kg
CK34941	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	670	270	500	500	ug/Kg
CK34941	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
CK34941	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
CK34941	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	2.28	0.14	0.81	0.81	mg/Kg

Friday, February 18, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCK34935 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK34941	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	2.28	0.14	0.18	0.18	mg/Kg
CK34941	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	165	0.36	63	63	mg/Kg
CK34941	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	117	0.7	109	109	mg/Kg
CK34942	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	15	2.3	3.3	3.3	ug/Kg
CK34942	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	18	2.3	3.3	3.3	ug/Kg
CK34942	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.47	0.03	0.18	0.18	mg/Kg
CK34942	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	44.2	0.35	30	30	mg/Kg
CK34942	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	137	0.35	63	63	mg/Kg
CK34943	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	930	190	560	560	ug/Kg
CK34943	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Commercial	6800	260	5600	5600	ug/Kg
CK34943	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	5200	260	1000	1000	ug/Kg
CK34943	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3300	260	500	500	ug/Kg
CK34943	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	930	190	330	330	ug/Kg
CK34943	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	8300	2600	3900	3900	ug/Kg
CK34943	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	5300	260	1000	1000	ug/Kg
CK34943	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	5200	260	1000	1000	ug/Kg
CK34943	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	6800	260	1000	1000	ug/Kg
CK34943	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5300	260	1000	1000	ug/Kg
CK34943	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3900	260	800	800	ug/Kg
CK34943	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5200	260	1000	1000	ug/Kg
CK34943	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	6800	260	1000	1000	ug/Kg
CK34943	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	930	190	330	330	ug/Kg
CK34943	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	260	500	500	ug/Kg
CK34943	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	8300	2600	1000	1000	ug/Kg
CK34943	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	3.4	2.2	3.3	3.3	ug/Kg
CK34943	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	91.9	0.8	50	50	mg/kg
CK34943	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.30	0.03	0.18	0.18	mg/Kg
CK34943	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	195	0.38	63	63	mg/Kg
CK34943	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	132	0.8	109	109	mg/Kg
CK34944	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	660	260	500	500	ug/Kg
CK34944	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	660	260	500	500	ug/Kg
CK34944	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.74	0.03	0.18	0.18	mg/Kg
CK34944	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	208	0.34	63	63	mg/Kg
CK34944	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	134	0.7	109	109	mg/Kg
CK34945	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1400	270	1000	1000	ug/Kg
CK34945	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	270	1000	1000	ug/Kg
CK34945	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1600	270	1000	1000	ug/Kg
CK34945	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	880	270	500	500	ug/Kg
CK34945	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	270	1000	1000	ug/Kg

Friday, February 18, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCK34935 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK34945	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	880	270	500	500	ug/Kg
CK34945	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	1000	1000	ug/Kg
CK34945	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	1000	1000	ug/Kg
CK34945	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	1000	1000	ug/Kg
CK34945	\$8270_TCLR	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	270	1000	1000	ug/Kg
CK34945	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	800	800	ug/Kg
CK34945	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	40	2.3	3.3	3.3	ug/Kg
CK34945	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	72	2.3	3.3	3.3	ug/Kg
CK34945	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.58	0.03	0.18	0.18	mg/Kg
CK34945	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	473	0.39	400	400	mg/Kg
CK34945	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	473	0.39	63	63	mg/Kg
CK34945	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	293	0.8	109	109	mg/Kg

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



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Analysis Comments

February 18, 2022

SDG I.D.: GCK34935

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

PEST Narration

AU-ECD35 02/11/22-1: CK34936, CK34942

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK34942

Preceding CC 211B020 - 4,4'-DDD 23%L (20%)

Succeeding CC 211B034 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 02/11/22-1: CK34935, CK34940, CK34941, CK34943, CK34944, CK34945

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK34935, CK34940, CK34941, CK34943, CK34944, CK34945

Preceding CC 211B034 - Methoxychlor 25%L (20%)

Succeeding CC 211B047 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 02/11/22-1: CK34937, CK34938, CK34939

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK34938, CK34939

Preceding CC 211B011 - None.

Succeeding CC 211B027 - b-BHC 24%L (20%), Endrin aldehyde 21%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CK34937

Preceding CC 211B027 - b-BHC 24%L (20%), Endrin aldehyde 21%L (20%)

Succeeding CC 211B040 - b-BHC 21%L (20%), Endrin aldehyde 26%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 02/15/22-1: CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK34935, CK34936, CK34937, CK34938, CK34939, CK34940

Preceding CC 215B004 - b-BHC 24%L (20%)

Succeeding CC 215B020 - b-BHC 23%L (20%), Endrin aldehyde 22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CK34941, CK34942, CK34943, CK34944, CK34945

Preceding CC 215B020 - b-BHC 23%L (20%), Endrin aldehyde 22%L (20%)

Succeeding CC 215B033 - b-BHC 25%L (20%), Endrin aldehyde 23%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

SVOA Narration

CHEM22 02/10/22-1: CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943



Environmental Laboratories, Inc.
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Analysis Comments

February 18, 2022

SDG I.D.: GCK34935

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.075 (0.1), Hexachlorobenzene 0.092 (0.1)

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

The following Continuing Calibration compounds did not meet % deviation criteria: 4-Chloroaniline 31%H (30%), N-Nitrosodimethylamine 34%L (30%)

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

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.078 (0.1), Hexachlorobenzene 0.091 (0.1)

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

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

CHEM36 02/10/22-1: CK34944, CK34945

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.085 (0.1)

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

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.079 (0.1)

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

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

CHEM36 02/11/22-1: CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.085 (0.1)

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

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.075 (0.1)

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

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

VOA Narration

CHEM14 02/10/22-2: CK34935, CK34936, CK34937, CK34938, CK34939, CK34940, CK34941, CK34942, CK34943, CK34944, CK34945, CK65287, CK65288

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 26% (20%), Acetone 29% (20%), Methylene chloride 28% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.095 (0.1), Bromoform 0.086 (0.1)

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

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



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



NY Temperature Narration

February 18, 2022

SDG I.D.: GCK34935

The samples in this delivery group were received at 1.0°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



NY/NJ/PA CHAIN OF CUSTODY RECORD

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

Coolant: Yes No
 IPK ICE
 Temp: 10 °C Pg 1 of 1

Contact Options:

Phone:
 Fax:
 Email: pendyenvren@phoenixlab.com
emfendcrgast@aol.com

Project: **EAST SIDE COASTAL RESILIENCY Project P.O: 0897**

Report to: **AES**
 Invoice to: **AES**
 QUOTE #: **AEO10921BA**

Customer: **AES**
 Address: **42 WEST AVENUE
 PATCHOGUE, NY 11772**

Client Sample - Information Identification

Sampler's Signature: [Signature] Date: 2/9/22
Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WM=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
34935	BH4	S	2.9.22	10:18
34936	BH2			11:00
34937	BH3			11:40
34938	BH4			11:50
34939	BH5			12:05
34940	BH7			1:25
34941	BH8			1:17
34942	BH9			1:50
34943	BH10			2:25
34944	BH11			2:50
34945	BH12			3:25

Analysis Request
 TAL/TCL T30
 FULL TCL P
 RLC T30
 EPH S
 TPH DRG / GPO

GL Amber 8 oz WH304
 GL VOA Vial (8) methanol H2O
 GL Amber 100ml Vial (4) oz HCl
 GL Amber 100ml Vial (4) oz H2O
 PL As is (250ml) As is (H2SO4
 PL H2SO4 (250ml) 1500ml
 PL MAOH 250ml
 PL HNO3 250ml
 Bacteria Bottle as is

Relinquished by: [Signature]
 Accepted by: [Signature]
 Date: 2/10/22 Time: 9:36

Comments, Special Requirements or Regulations:
 TBHL 65287
 TBLL 65288
 TBs received / not listed on COC

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

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

Data Format:
 Phoenix Std Report
 Excel
 PDF
 GIS/Key
 Other

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

NY
 TOGS GW
 CP-51 SOIL
 375SSCO
 Unrestricted Soil
 375SSCO
 Residential Soil
 375SSCO
 Residential Soil
 375SSCO
 Commercial Soil
 375SSCO
 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



Wednesday, March 02, 2022

Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Project ID: EAST SIDE COASTAL RESILIENCY
SDG ID: GCK66091
Sample ID#s: CK66091 - CK66110, CK66356 - CK66357

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,

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

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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.
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SDG Comments

March 02, 2022

SDG I.D.: GCK66091

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



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Sample Id Cross Reference

March 02, 2022

SDG I.D.: GCK66091

Project ID: EAST SIDE COASTAL RESILIENCY

Client Id	Lab Id	Matrix
BH13	CK66091	SOIL
BH14	CK66092	SOIL
BH15	CK66093	SOIL
BH16	CK66094	SOIL
BH17	CK66095	SOIL
BH18	CK66096	SOIL
BH19	CK66097	SOIL
BH20	CK66098	SOIL
BH21	CK66099	SOIL
BH22	CK66100	SOIL
BH23	CK66101	SOIL
BH24	CK66102	SOIL
BH25	CK66103	SOIL
BH26	CK66104	SOIL
BH27	CK66105	SOIL
BH28	CK66106	SOIL
BH29	CK66107	SOIL
BH30	CK66108	SOIL
BH31	CK66109	SOIL
BH32	CK66110	SOIL
TB LL	CK66356	SOIL
TB HL	CK66357	SOIL



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

7:35
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66091

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	02/14/22	TH	SW6010D
Aluminum	8120	53	mg/Kg	10	02/14/22	TH	SW6010D
Arsenic	10.3	0.71	mg/Kg	1	02/14/22	TH	SW6010D
Barium	190	0.36	mg/Kg	1	02/14/22	TH	SW6010D
Beryllium	0.58	0.28	mg/Kg	1	02/14/22	TH	SW6010D
Calcium	8180	5.3	mg/Kg	1	02/14/22	TH	SW6010D
Cadmium	2.15	0.36	mg/Kg	1	02/14/22	TH	SW6010D
Cobalt	9.16	0.36	mg/Kg	1	02/14/22	TH	SW6010D
Chromium	15.9	0.36	mg/Kg	1	02/14/22	TH	SW6010D
Copper	64.0	0.7	mg/kg	1	02/14/22	TH	SW6010D
Iron	28600	53	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.52	0.03	mg/Kg	1	02/14/22	AP	SW7471B
Potassium	1240	5.3	mg/Kg	1	02/14/22	TH	SW6010D
Magnesium	4110	5.3	mg/Kg	1	02/14/22	TH	SW6010D
Manganese	456	3.6	mg/Kg	10	02/14/22	TH	SW6010D
Sodium	230	5.3	mg/Kg	1	02/14/22	TH	SW6010D
Nickel	18.2	0.36	mg/Kg	1	02/14/22	TH	SW6010D
Lead	335	0.36	mg/Kg	1	02/14/22	TH	SW6010D
Antimony	4.8	3.6	mg/Kg	1	02/14/22	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/14/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	2.37	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	0.0003	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	1.16	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.2	3.2	mg/Kg	1	02/14/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	25.3	0.36	mg/Kg	1	02/14/22	TH	SW6010D
Zinc	224	0.7	mg/Kg	1	02/14/22	TH	SW6010D
Percent Solid	89		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	7.92	1.00	pH Units	1	02/11/22 21:59	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	79		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	94		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/11/22	B/R/U	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	31	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	89		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	91		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	96		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	74	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1221	ND	74	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1232	ND	74	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1242	ND	74	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1248	ND	74	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1254	ND	74	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1260	ND	74	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1262	ND	74	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1268	ND	74	ug/Kg	2	02/13/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	67		%	2	02/13/22	SC	30 - 150 %
% DCBP (Confirmation)	56		%	2	02/13/22	SC	30 - 150 %
% TCMX	69		%	2	02/13/22	SC	30 - 150 %
% TCMX (Confirmation)	67		%	2	02/13/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/14/22	AW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/14/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/14/22	AW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/14/22	AW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/14/22	AW	SW8081B
g-Chlordane	ND	5.0	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	02/14/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/14/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/14/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	57		%	2	02/14/22	AW	30 - 150 %
% DCBP (Confirmation)	51		%	2	02/14/22	AW	30 - 150 %
% TCMX	47		%	2	02/14/22	AW	30 - 150 %
% TCMX (Confirmation)	51		%	2	02/14/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/15/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/15/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	78		%	10	02/15/22	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	02/15/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	71		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	68		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	67		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	70		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/15/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	91		%	5	02/15/22	JRB	50 - 150 %
% Terphenyl (surr)	91		%	5	02/15/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	40	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	99	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	98		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	500	260	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	1500	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	1200	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	1100	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	620	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	1100	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	1500	260	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	740	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	3500	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	770	260	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	2900	260	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	3200	260	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	70		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	41		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	66		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	53		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	70		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	111		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	92		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	81		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	98		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	78		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	104		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

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

Semi-Volatile Comment:

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

7:45
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66092

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	10600	58	mg/Kg	10	02/14/22	TH	SW6010D
Arsenic	5.43	0.77	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	129	0.38	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.60	0.31	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	3260	5.8	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	1.45	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	7.32	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	21.8	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	133	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	17300	58	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.20	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	1500	5.8	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	3570	5.8	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	254	3.8	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	250	5.8	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	17.4	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	169	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	1.46	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.60	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.5	3.5	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	31.7	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	157	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	88		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	7.31	1.00	pH Units	1	02/11/22 21:59	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.52	0.52	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	56	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
C9-C28	ND	56	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
Total EPH	ND	56	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	69		%	5	02/15/22	JRB	40 - 140 %
% Terphenyl (surr)	86		%	5	02/15/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/11/22	B/R/U	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.5	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	89		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/12/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/12/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/12/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	102		%	10	02/12/22	JRB	30 - 150 %
% DCAA (Confirmation)	106		%	10	02/12/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	75	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1221	ND	75	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1232	ND	75	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1242	ND	75	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1248	ND	75	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1254	ND	75	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1260	ND	75	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1262	ND	75	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1268	ND	75	ug/Kg	2	02/13/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	71		%	2	02/13/22	SC	30 - 150 %
% DCBP (Confirmation)	59		%	2	02/13/22	SC	30 - 150 %
% TCMX	69		%	2	02/13/22	SC	30 - 150 %
% TCMX (Confirmation)	68		%	2	02/13/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDE	3.9	2.3	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/14/22	AW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/14/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/14/22	AW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/14/22	AW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/14/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/14/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/14/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	61		%	2	02/14/22	AW	30 - 150 %
% DCBP (Confirmation)	41		%	2	02/14/22	AW	30 - 150 %
% TCMX	38		%	2	02/14/22	AW	30 - 150 %
% TCMX (Confirmation)	42		%	2	02/14/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/15/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/15/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	76		%	10	02/15/22	JRB	30 - 150 %
% DCAA (Confirmation)	76		%	10	02/15/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	73		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	71		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	62		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	65		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/14/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	87		%	5	02/14/22	JRB	50 - 150 %
% Terphenyl (surr)	86		%	5	02/14/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	25	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	4.0	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	25	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	5.1	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	76	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	280	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	280	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	300	260	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	730	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	500	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	350	260	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	470	260	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	115		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	83		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	60		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	79		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	74		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	93		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	49		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	40		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	44		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	41		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	47		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	48		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

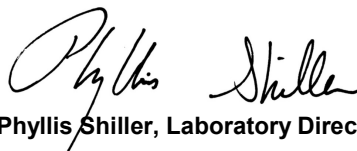
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

7:55
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66093

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	20000	60	mg/Kg	10	02/14/22	TH	SW6010D
Arsenic	14.5	0.80	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	135	0.40	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.87	0.32	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	10000	60	mg/Kg	10	02/14/22	TH	SW6010D
Cadmium	2.20	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	11.6	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	24.5	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	36.4	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	26700	60	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.13	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	2380	6.0	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	3540	6.0	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	473	4.0	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	1050	6.0	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	34.6	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	37.6	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.44	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.6	3.6	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	49.1	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	109	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	86		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	7.44	1.00	pH Units	1	02/11/22 21:59	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.45	0.45	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	49		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	74		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/11/22	B/R/U	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	22	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	88		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/13/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/13/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/13/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/13/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/13/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/13/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/13/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/13/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	96		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	86		%	10	02/13/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/13/22	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/13/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	84		%	2	02/13/22	SC	30 - 150 %
% DCBP (Confirmation)	87		%	2	02/13/22	SC	30 - 150 %
% TCMX	70		%	2	02/13/22	SC	30 - 150 %
% TCMX (Confirmation)	70		%	2	02/13/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/14/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/14/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/14/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/14/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/14/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/14/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/14/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/14/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	63		%	2	02/14/22	AW	30 - 150 %
% DCBP (Confirmation)	57		%	2	02/14/22	AW	30 - 150 %
% TCMX	50		%	2	02/14/22	AW	30 - 150 %
% TCMX (Confirmation)	52		%	2	02/14/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	77		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	74		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	71		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	66		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	70		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	57	mg/Kg	1	02/12/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	78		%	1	02/12/22	JRB	50 - 150 %
% Terphenyl (surr)	79		%	1	02/12/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	47	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	47	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	57	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	19	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	7.5	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	47	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	112		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	83		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	58		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	69		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	82		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	101		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	83		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	72		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	85		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	71		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	97		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

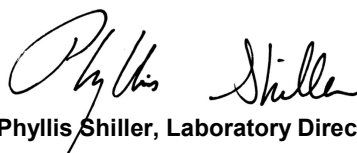
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

8:05
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66094

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	10000	51	mg/Kg	10	02/14/22	TH	SW6010D
Arsenic	10.1	0.68	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	101	0.34	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.56	0.27	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	2030	5.1	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	1.88	0.34	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	6.42	0.34	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	26.1	0.34	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	52.9	0.7	mg/kg	1	02/14/22	CPP	SW6010D
Iron	13700	51	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.46	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	618	5.1	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	1780	5.1	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	222	3.4	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	94.0	5.1	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	23.1	0.34	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	234	0.34	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.77	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.16	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.0	3.0	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	57.4	0.34	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	135	0.7	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	89		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	7.06	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.62	0.62	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	130	11	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3
C9-C28	53	11	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3
Total EPH	183	11	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	54		%	1	02/14/22	JRB	40 - 140 %
% Terphenyl (surr)	82		%	1	02/14/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/11/22	B/R/U	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	7.8	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	93		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/13/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/13/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/13/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/13/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/13/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/13/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/13/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/13/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	100		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	90		%	10	02/13/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	75	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1221	ND	75	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1232	ND	75	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1242	ND	75	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1248	ND	75	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1254	ND	75	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1260	ND	75	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1262	ND	75	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1268	ND	75	ug/Kg	2	02/14/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	85		%	2	02/14/22	SC	30 - 150 %
% DCBP (Confirmation)	83		%	2	02/14/22	SC	30 - 150 %
% TCMX	74		%	2	02/14/22	SC	30 - 150 %
% TCMX (Confirmation)	73		%	2	02/14/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDE	30	2.2	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDT	18	2.2	ug/Kg	2	02/14/22	AW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/14/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/14/22	AW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/14/22	AW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/14/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	02/14/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/14/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/14/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	58		%	2	02/14/22	AW	30 - 150 %
% DCBP (Confirmation)	87		%	2	02/14/22	AW	30 - 150 %
% TCMX	59		%	2	02/14/22	AW	30 - 150 %
% TCMX (Confirmation)	76		%	2	02/14/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	73		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	76		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	69		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	65		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	61		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	63		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	56	mg/Kg	1	02/12/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	93		%	1	02/12/22	JRB	50 - 150 %
% Terphenyl (surr)	90		%	1	02/12/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	29	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	34	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	4.6	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	29	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1,4-dioxane

1,4-dioxane	ND	86	ug/kg	1	02/12/22	JLI	SW8260C
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TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %

Volatile Library Search Completed 02/14/22 JLI

Semivolatiles

1,1-Biphenyl	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	580	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	580	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	580	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	730	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	260	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	107		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	57		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	36		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	49		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	48		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	76		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	97		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	83		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	70		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	85		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	66		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	93		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/24/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

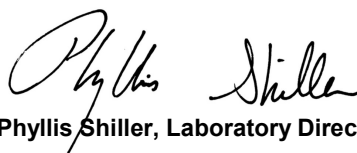
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

8:10
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66095

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	1130	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Arsenic	3.52	0.84	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	15.3	0.42	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	1530	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	< 0.42	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	5.17	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	2.59	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	23.8	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	4560	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	279	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	660	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	73.7	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Sodium	147	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	26.5	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	15.1	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.12	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.8	3.8	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	52.4	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	17.4	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	79		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	6.04	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.58	0.58	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	13	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3
C9-C28	19	13	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3
Total EPH	19	13	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	104		%	1	02/14/22	JRB	40 - 140 %
% Terphenyl (surr)	115		%	1	02/14/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/11/22	B/R/U	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	16	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	88		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	160	ug/Kg	10	02/13/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	160	ug/Kg	10	02/13/22	JRB	SW8151A
2,4-D	ND	310	ug/Kg	10	02/13/22	JRB	SW8151A
2,4-DB	ND	3100	ug/Kg	10	02/13/22	JRB	SW8151A
Dalapon	ND	160	ug/Kg	10	02/13/22	JRB	SW8151A
Dicamba	ND	160	ug/Kg	10	02/13/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	310	ug/Kg	10	02/13/22	JRB	SW8151A
Dinoseb	ND	310	ug/Kg	10	02/13/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	98		%	10	02/13/22	JRB	30 - 150 %
% DCAA (Confirmation)	87		%	10	02/13/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	83	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1221	ND	83	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1232	ND	83	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1242	ND	83	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1248	ND	83	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1254	ND	83	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1260	ND	83	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1262	ND	83	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1268	ND	83	ug/Kg	2	02/14/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	77		%	2	02/14/22	SC	30 - 150 %
% DCBP (Confirmation)	79		%	2	02/14/22	SC	30 - 150 %
% TCMX	73		%	2	02/14/22	SC	30 - 150 %
% TCMX (Confirmation)	69		%	2	02/14/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.5	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDE	ND	2.5	ug/Kg	2	02/14/22	AW	SW8081B
4,4' -DDT	ND	2.5	ug/Kg	2	02/14/22	AW	SW8081B
a-BHC	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
a-Chlordane	ND	4.1	ug/Kg	2	02/14/22	AW	SW8081B
Aldrin	ND	4.1	ug/Kg	2	02/14/22	AW	SW8081B
b-BHC	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
Chlordane	ND	41	ug/Kg	2	02/14/22	AW	SW8081B
d-BHC	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
Endrin	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	02/14/22	AW	SW8081B
g-Chlordane	ND	4.1	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	02/14/22	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	02/14/22	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	02/14/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	54		%	2	02/14/22	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	02/14/22	AW	30 - 150 %
% TCMX	59		%	2	02/14/22	AW	30 - 150 %
% TCMX (Confirmation)	63		%	2	02/14/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	84		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	85		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	76		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	70		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	69		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	73		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	62	mg/Kg	1	02/12/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	88		%	1	02/12/22	JRB	50 - 150 %
% Terphenyl (surr)	85		%	1	02/12/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	78	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	78	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	93	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	31	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	12	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	16	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	100		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	670	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	670	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	420	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	500	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	670	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	420	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	670	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1200	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	420	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	420	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	330	290	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	210	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	840	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	440	290	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	420	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	210	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	420	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	420	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	290	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	470	290	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	115		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	47		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	65		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	98		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	108		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	91		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	79		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	96		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	78		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	103		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

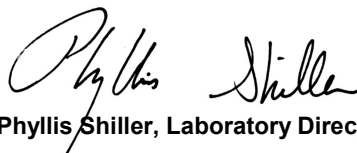
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

8:25
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66096

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	3930	56	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	15.7	0.75	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	33.2	0.38	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	< 0.30	0.30	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	4860	5.6	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	1.07	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	6.79	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	9.99	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	38.4	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	16200	56	mg/Kg	10	02/14/22	CPP	SW6010D
Mercury	0.49	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	669	5.6	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	2670	5.6	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	307	3.8	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	188	5.6	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	11.6	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	44.8	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	1.13	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.50	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.4	3.4	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	38.8	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	75.1	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	95		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	7.22	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.44	0.44	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	10	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3
C9-C28	ND	10	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3
Total EPH	ND	10	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	83		%	1	02/14/22	JRB	40 - 140 %
% Terphenyl (surr)	90		%	1	02/14/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/11/22	B/R/U	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	9.4	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	89		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	130	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	130	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	260	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2600	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	130	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	130	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	260	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	260	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	86		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	82		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	70	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1221	ND	70	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1232	ND	70	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1242	ND	70	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1248	ND	70	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1254	ND	70	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1260	ND	70	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1262	ND	70	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1268	ND	70	ug/Kg	2	02/14/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	70		%	2	02/14/22	SC	30 - 150 %
% DCBP (Confirmation)	75		%	2	02/14/22	SC	30 - 150 %
% TCMX	69		%	2	02/14/22	SC	30 - 150 %
% TCMX (Confirmation)	67		%	2	02/14/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	6.1	2.1	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDE	16	2.1	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDT	7.0	2.1	ug/Kg	2	02/15/22	AW	SW8081B
a-BHC	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
a-Chlordane	ND	3.5	ug/Kg	2	02/15/22	AW	SW8081B
Aldrin	ND	3.5	ug/Kg	2	02/15/22	AW	SW8081B
b-BHC	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
Chlordane	ND	35	ug/Kg	2	02/15/22	AW	SW8081B
d-BHC	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
Endrin	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	02/15/22	AW	SW8081B
g-Chlordane	ND	3.5	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	02/15/22	AW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	02/15/22	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	54		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	49		%	2	02/15/22	AW	30 - 150 %
% TCMX	51		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	51		%	2	02/15/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	77		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	78		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	73		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	68		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	66		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	70		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	51	mg/Kg	1	02/12/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	94		%	1	02/12/22	JRB	50 - 150 %
% Terphenyl (surr)	99		%	1	02/12/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	22	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	44	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	27	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.8	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	3.5	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	22	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	66	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	560	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	560	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	420	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	560	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1000	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	350	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	690	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	350	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	101		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	61		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	35		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	49		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	48		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	78		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	107		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	88		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	74		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	90		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	73		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	100		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

8:30
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66097

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	7330	53	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	5.48	0.71	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	46.8	0.36	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	< 0.28	0.28	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	4460	5.3	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	2.04	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	17.3	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	6.09	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	131	7.1	mg/kg	10	02/14/22	CPP	SW6010D
Iron	33900	53	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.04	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	1580	5.3	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	4650	5.3	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	353	3.6	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	479	5.3	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	12.7	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	41.0	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.22	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.2	3.2	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	133	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	222	0.7	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	95		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	6.99	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.44	0.44	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	10	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3
C9-C28	14	10	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3
Total EPH	14	10	mg/kg	1	02/14/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	69		%	1	02/14/22	JRB	40 - 140 %
% Terphenyl (surr)	83		%	1	02/14/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/11/22	B/R/U	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.8	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	93		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	130	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	130	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	260	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2600	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	130	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	130	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	260	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	260	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	95		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	92		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	69	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1221	ND	69	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1232	ND	69	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1242	ND	69	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1248	ND	69	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1254	ND	69	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1260	ND	69	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1262	ND	69	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1268	ND	69	ug/Kg	2	02/14/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	77		%	2	02/14/22	SC	30 - 150 %
% DCBP (Confirmation)	75		%	2	02/14/22	SC	30 - 150 %
% TCMX	68		%	2	02/14/22	SC	30 - 150 %
% TCMX (Confirmation)	67		%	2	02/14/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.1	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDE	ND	2.1	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDT	ND	2.1	ug/Kg	2	02/15/22	AW	SW8081B
a-BHC	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
a-Chlordane	ND	3.5	ug/Kg	2	02/15/22	AW	SW8081B
Aldrin	ND	3.5	ug/Kg	2	02/15/22	AW	SW8081B
b-BHC	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
Chlordane	ND	35	ug/Kg	2	02/15/22	AW	SW8081B
d-BHC	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan I	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan II	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan sulfate	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
Endrin	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
Endrin aldehyde	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
Endrin ketone	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	02/15/22	AW	SW8081B
g-Chlordane	ND	3.5	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	6.9	ug/Kg	2	02/15/22	AW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	02/15/22	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	69		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	60		%	2	02/15/22	AW	30 - 150 %
% TCMX	66		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	63		%	2	02/15/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	74		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	77		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	74		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	65		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	64		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	67		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	51	mg/Kg	1	02/12/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	91		%	1	02/12/22	JRB	50 - 150 %
% Terphenyl (surr)	96		%	1	02/12/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	36	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	4.8	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	6.0	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1,4-dioxane

1,4-dioxane	ND	90	ug/kg	1	02/12/22	JLI	SW8260C
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TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %

Volatile Library Search Completed 02/14/22 JLI

Semivolatiles

1,1-Biphenyl	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	550	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	550	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	410	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	550	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	550	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1000	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	340	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	690	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	290	240	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	340	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	340	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	340	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	240	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	270	240	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	121		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	74		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	43		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	59		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	62		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	93		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	107		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	89		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	75		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	92		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	74		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	97		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

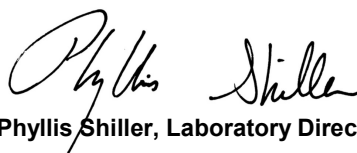
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

8:40
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66098

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	9880	58	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	4.84	0.78	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	61.6	0.39	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.44	0.31	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	4090	5.8	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	2.03	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	12.8	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	15.5	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	90.5	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	25300	58	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.24	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	924	5.8	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	3670	5.8	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	378	3.9	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	235	5.8	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	17.7	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	72.5	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.31	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.5	3.5	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	91.5	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	305	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	88		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	7.26	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.41	0.41	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	12	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	15	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	27	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	103		%	1	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	110		%	1	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	8.2	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	90		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	87		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	97		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1221	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1232	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1242	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1248	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1254	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1260	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1262	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1268	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	72		%	2	02/14/22	SC	30 - 150 %
% DCBP (Confirmation)	73		%	2	02/14/22	SC	30 - 150 %
% TCMX	68		%	2	02/14/22	SC	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/14/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/15/22	AW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/15/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/15/22	AW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/15/22	AW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/15/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/15/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	67		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	02/15/22	AW	30 - 150 %
% TCMX	63		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/15/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	80		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	83		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	72		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	68		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	67		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	70		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	57	mg/Kg	1	02/12/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	84		%	1	02/12/22	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	02/12/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	17	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	17	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	34	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	20	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	6.7	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	2.7	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	17	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	3.4	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1,4-dioxane

1,4-dioxane	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
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TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %

Volatile Library Search Completed 02/14/22 JLI

Semivolatiles

1,1-Biphenyl	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	116		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	76		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	52		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	67		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	91		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	103		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	85		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	73		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	89		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	69		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	98		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

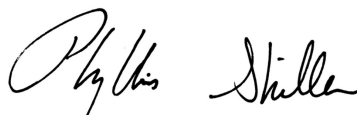
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

8:50
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66099

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.51	0.32	mg/Kg	1	02/14/22	TH	SW6010D
Aluminum	8810	49	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	5.33	0.65	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	92.4	0.32	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.44	0.26	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	2010	4.9	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	1.36	0.32	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	8.28	0.32	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	32.2	0.32	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	40.6	0.6	mg/kg	1	02/14/22	CPP	SW6010D
Iron	16400	49	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	1.59	0.07	mg/Kg	5	02/14/22	AP	SW7471B
Potassium	1050	4.9	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	2970	4.9	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	334	3.2	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	252	4.9	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	39.8	0.32	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	137	0.32	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.2	3.2	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.51	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.21	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 2.9	2.9	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	31.1	0.32	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	113	0.6	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	92		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	7.47	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.45	0.45	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	15	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	24	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	39	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	127		%	1	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	141		%	1	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/14/22	F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	7.1	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	89		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	91		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	88		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	71	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1221	ND	71	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1232	ND	71	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1242	ND	71	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1248	ND	71	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1254	ND	71	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1260	ND	71	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1262	ND	71	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1268	ND	71	ug/Kg	2	02/14/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	74		%	2	02/14/22	SC	30 - 150 %
% DCBP (Confirmation)	77		%	2	02/14/22	SC	30 - 150 %
% TCMX	73		%	2	02/14/22	SC	30 - 150 %
% TCMX (Confirmation)	69		%	2	02/14/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.1	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDE	ND	2.1	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDT	ND	2.1	ug/Kg	2	02/15/22	AW	SW8081B
a-BHC	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
a-Chlordane	ND	3.6	ug/Kg	2	02/15/22	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	02/15/22	AW	SW8081B
b-BHC	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	02/15/22	AW	SW8081B
d-BHC	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
Endrin	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	02/15/22	AW	SW8081B
g-Chlordane	ND	3.6	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	02/15/22	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	02/15/22	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	71		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	64		%	2	02/15/22	AW	30 - 150 %
% TCMX	70		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	68		%	2	02/15/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	76		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	78		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/15/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/15/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/15/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	62		%	10	02/15/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	57		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	59		%	10	02/15/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	62		%	10	02/15/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	54	mg/Kg	1	02/12/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	90		%	1	02/12/22	JRB	50 - 150 %
% Terphenyl (surr)	100		%	1	02/12/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	24	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	49	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	29	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.8	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	3.9	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	24	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	73	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	580	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	580	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	430	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	580	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1000	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	750	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	820	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	810	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	540	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	730	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	810	250	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	720	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	1500	250	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	580	250	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	920	250	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	1400	250	ug/Kg	1	02/13/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	112		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	44		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	61		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	88		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	98		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	83		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	73		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	86		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	71		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	94		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 24 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

9:20
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66100

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH22

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	7380	63	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	6.23	0.84	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	85.3	0.42	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.38	0.33	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	2830	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	1.31	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	5.52	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	18.1	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	35.2	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	12000	63	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.30	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	692	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	1880	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	291	4.2	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	85.2	6.3	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	18.9	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	1230	4.0	mg/Kg	10	03/01/22	EK	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	2.30	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	1.04	0.10	mg/L	1	03/01/22	TH	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.8	3.8	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				03/01/22	AB/AB	SW3010A
Vanadium	35.8	0.42	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	150	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	82		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	7.77	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.61	0.61	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	60	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	60	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	60	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	53		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	93		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/28/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/28/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.6	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	87		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	300	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	3000	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	300	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	300	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	94		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	98		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1221	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1232	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1242	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1248	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1254	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1260	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1262	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
PCB-1268	ND	80	ug/Kg	2	02/14/22	KCA	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	83		%	2	02/14/22	KCA	30 - 150 %
% DCBP (Confirmation)	88		%	2	02/14/22	KCA	30 - 150 %
% TCMX	74		%	2	02/14/22	KCA	30 - 150 %
% TCMX (Confirmation)	71		%	2	02/14/22	KCA	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.4	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDE	40	2.4	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDT	40	2.4	ug/Kg	2	02/15/22	AW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
a-Chlordane	ND	4.0	ug/Kg	2	02/15/22	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	02/15/22	AW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	02/15/22	AW	SW8081B
d-BHC	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	02/15/22	AW	SW8081B
g-Chlordane	ND	4.0	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	02/15/22	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	02/15/22	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	66		%	2	02/15/22	AW	30 - 150 %
% TCMX	63		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/15/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	79		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	83		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	56		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	70		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	68		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	69		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	300	mg/Kg	5	02/14/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	78		%	5	02/14/22	JRB	50 - 150 %
% Terphenyl (surr)	81		%	5	02/14/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	40	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	6.6	ug/kg	1	02/12/22	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	650	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	650	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	480	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	650	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	650	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1200	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	740	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	630	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	640	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	370	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	610	280	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	740	280	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	200	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	810	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	1400	280	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	420	280	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	400	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	950	280	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	280	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	1100	280	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	113		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	47		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	63		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	63		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	90		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	100		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	84		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	74		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	90		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	73		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	93		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

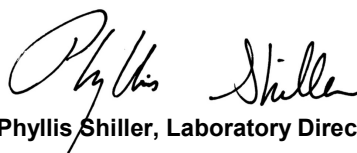
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

9:55
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66101

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	7770	55	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	2.37	0.74	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	106	0.37	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.42	0.29	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	3380	5.5	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	1.17	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	7.37	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	16.2	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	26.3	0.7	mg/kg	1	02/14/22	CPP	SW6010D
Iron	15400	55	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	13.7	0.67	mg/Kg	50	02/14/22	AP	SW7471B
Potassium	1300	5.5	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	3070	5.5	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	294	3.7	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	336	5.5	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	19.7	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	102	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.52	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.11	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	27.8	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	61.8	0.7	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	86		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr 1
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit 1
pH at 25C - Soil	8.14	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D 1
Reactivity Cyanide	< 6	6	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90 1
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7 1
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React 1
Total Cyanide (SW9010C Distill.)	< 0.53	0.53	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	58	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1
C9-C28	91	58	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1
Total EPH	91	58	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1

QA/QC Surrogates

% COD (surr)	Interference		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	113		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/17/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	7.2	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	93		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	92		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	89		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/14/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	77		%	2	02/14/22	SC	30 - 150 %
% DCBP (Confirmation)	71		%	2	02/14/22	SC	30 - 150 %
% TCMX	68		%	2	02/14/22	SC	30 - 150 %
% TCMX (Confirmation)	69		%	2	02/14/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/15/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	02/15/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/15/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	02/15/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/15/22	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/15/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/15/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	66		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	57		%	2	02/15/22	AW	30 - 150 %
% TCMX	60		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	02/15/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	82		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	84		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	86		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	76		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	66		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	74		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/14/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	86		%	5	02/14/22	JRB	50 - 150 %
% Terphenyl (surr)	90		%	5	02/14/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	29	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	6.3	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	35	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	29	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/kg	1	02/12/22	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1,4-dioxane

1,4-dioxane	ND	88	ug/kg	1	02/12/22	JLI	SW8260C
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TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	104		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %

Volatile Library Search Completed 02/14/22 JLI

Semivolatiles

1,1-Biphenyl	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	360	270	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	720	270	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	700	270	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	580	270	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	460	270	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	560	270	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	340	270	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	720	270	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	1900	270	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	500	270	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	1400	270	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	1700	270	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	108		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	39		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	51		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	53		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	96		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	90		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	77		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	67		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	80		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	67		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	86		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

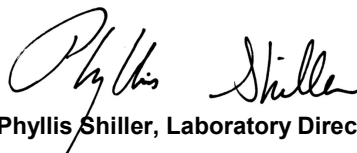
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

10:10
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66102

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.50	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	10500	55	mg/Kg	10	02/14/22	TH	SW6010D
Arsenic	10.7	0.74	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	249	0.37	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.57	0.29	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	23200	55	mg/Kg	10	02/14/22	CPP	SW6010D
Cadmium	1.81	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	11.0	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	23.6	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	51.2	0.7	mg/kg	1	02/14/22	CPP	SW6010D
Iron	21400	55	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.38	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	2860	5.5	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	11600	55	mg/Kg	10	02/14/22	CPP	SW6010D
Manganese	333	3.7	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	567	5.5	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	24.6	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	340	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	4.4	3.7	mg/Kg	1	02/14/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.74	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.31	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	33.0	0.37	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	196	0.7	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	87		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	9.73	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.57	0.57	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	65		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	82		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/17/22	I/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.9	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	87		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	88		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	85		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/14/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	78		%	2	02/14/22	SC	30 - 150 %
% DCBP (Confirmation)	77		%	2	02/14/22	SC	30 - 150 %
% TCMX	72		%	2	02/14/22	SC	30 - 150 %
% TCMX (Confirmation)	71		%	2	02/14/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	4.0	2.3	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDE	3.9	2.3	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/15/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/15/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/15/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/15/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/15/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/15/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/15/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	57		%	2	02/15/22	AW	30 - 150 %
% TCMX	62		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/15/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	75		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	78		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	72		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	61		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	75		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	74		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/18/22	AW	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	66		%	5	02/18/22	AW	50 - 150 %
% Terphenyl (surr)	79		%	5	02/18/22	AW	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	37	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	4.9	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	91	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	102		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	330	260	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	1300	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	1500	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	1300	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	940	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	1200	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	1400	260	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	230	190	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	2900	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1000	260	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	1300	260	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	2800	260	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	100		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	49		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	68		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	100		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	102		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	89		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	77		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	94		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	75		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	101		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

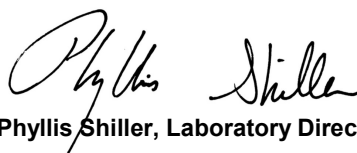
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

10:25
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66103

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	5180	57	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	2.05	0.76	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	115	0.38	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.32	0.30	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	23700	57	mg/Kg	10	02/14/22	CPP	SW6010D
Cadmium	0.80	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	4.95	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	12.1	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	29.4	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	10100	57	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	1.33	0.03	mg/Kg	2	02/14/22	AP	SW7471B
Potassium	1510	5.7	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	9650	57	mg/Kg	10	02/14/22	CPP	SW6010D
Manganese	197	3.8	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	254	5.7	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	10.2	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	79.6	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.76	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.14	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.4	3.4	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	25.4	0.38	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	98.7	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	88		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	8.31	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.52	0.52	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	57	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	90	57	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	90	57	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	Interference		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	111		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/11/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/11/22	O/E	SW3545A
Mercury Digestion	Completed				02/14/22	AB/AB	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.5	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	85		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	88		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	85		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1221	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1232	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1242	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1248	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1254	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1260	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1262	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
PCB-1268	ND	74	ug/Kg	2	02/14/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	84		%	2	02/14/22	SC	30 - 150 %
% DCBP (Confirmation)	86		%	2	02/14/22	SC	30 - 150 %
% TCMX	76		%	2	02/14/22	SC	30 - 150 %
% TCMX (Confirmation)	77		%	2	02/14/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDE	7.2	2.2	ug/Kg	2	02/15/22	AW	SW8081B
4,4' -DDT	16	2.2	ug/Kg	2	02/15/22	AW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/15/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/15/22	AW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/15/22	AW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/15/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	02/15/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/15/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/15/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	70		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	59		%	2	02/15/22	AW	30 - 150 %
% TCMX	67		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	67		%	2	02/15/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	86		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	87		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	74		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	75		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	75		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	78		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/16/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	85		%	5	02/16/22	KCA	50 - 150 %
% Terphenyl (surr)	83		%	5	02/16/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	26	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	32	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	4.2	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	26	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	79	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	280	260	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	880	260	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	3700	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	3700	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	3400	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	2000	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	2800	260	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	3800	260	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	520	190	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	740	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	8100	2600	ug/Kg	10	02/15/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2400	260	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	4100	260	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	7600	2600	ug/Kg	10	02/15/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	96		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	46		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	61		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	60		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	93		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol (10x)	81		%	10	02/15/22	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	84		%	10	02/15/22	WB	30 - 130 %
% 2-Fluorophenol (10x)	57		%	10	02/15/22	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	75		%	10	02/15/22	WB	30 - 130 %
% Phenol-d5 (10x)	68		%	10	02/15/22	WB	30 - 130 %
% Terphenyl-d14 (10x)	89		%	10	02/15/22	WB	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270

QA/QC Surrogates

% 2,4,6-Tribromophenol	92		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	80		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	70		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	81		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	70		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	92		%	1	02/16/22	WB	30 - 130 %

Semivolatile Library Search Completed 02/14/22 MR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

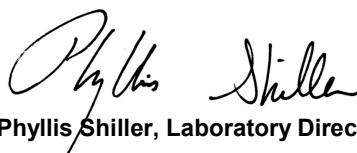
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

10:40
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66104

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH26

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.61	0.36	mg/Kg	1	02/14/22	EK	SW6010D
Aluminum	7350	53	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	4.00	0.71	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	139	0.36	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.39	0.28	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	23000	53	mg/Kg	10	02/14/22	CPP	SW6010D
Cadmium	1.26	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	6.53	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	22.2	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	40.3	0.7	mg/kg	1	02/14/22	CPP	SW6010D
Iron	15500	53	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.27	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1100	5.3	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	6210	53	mg/Kg	10	02/14/22	CPP	SW6010D
Manganese	290	3.6	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	927	5.3	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	16.5	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	123	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.61	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.2	3.2	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	36.0	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	115	0.7	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	90		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr 1
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit 1
pH at 25C - Soil	9.15	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D 1
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90 1
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7 1
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React 1
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	54	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1
C9-C28	ND	54	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1
Total EPH	ND	54	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1

QA/QC Surrogates

% COD (surr)	124		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	102		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/14/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/14/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/11/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	17	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	86		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	91		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	88		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1221	ND	73	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1232	ND	73	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1242	ND	73	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1248	ND	73	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1254	ND	73	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1260	ND	73	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1262	ND	73	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1268	ND	73	ug/Kg	2	02/15/22	KCA	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	02/15/22	KCA	30 - 150 %
% DCBP (Confirmation)	71		%	2	02/15/22	KCA	30 - 150 %
% TCMX	67		%	2	02/15/22	KCA	30 - 150 %
% TCMX (Confirmation)	70		%	2	02/15/22	KCA	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	21	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	18	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	4.6	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	7.1	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	4.1	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	60		%	2	02/16/22	AW	30 - 150 %
% TCMX	49		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	77		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	64		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	69		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	71		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	72		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	270	mg/Kg	5	02/16/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	88		%	5	02/16/22	KCA	50 - 150 %
% Terphenyl (surr)	109		%	5	02/16/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	120	S 50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	7.4	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	36	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	4.8	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	30	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	91	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	105		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	100		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrophenol	ND	580	ug/Kg	1	02/13/22	WB	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitroaniline	ND	580	ug/Kg	1	02/13/22	WB	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	430	ug/Kg	1	02/13/22	WB	SW8270D
3-Nitroaniline	ND	580	ug/Kg	1	02/13/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	02/13/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	02/13/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1000	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Acetophenone	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Anthracene	320	250	ug/Kg	1	02/13/22	WB	SW8270D
Atrazine	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Benz(a)anthracene	860	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzaldehyde	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(a)pyrene	940	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(b)fluoranthene	740	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(ghi)perylene	660	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzo(k)fluoranthene	770	250	ug/Kg	1	02/13/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Caprolactam	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Carbazole	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
Chrysene	890	250	ug/Kg	1	02/13/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/13/22	WB	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-butylphthalate	ND	720	ug/Kg	1	02/13/22	WB	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Fluoranthene	2200	250	ug/Kg	1	02/13/22	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	760	250	ug/Kg	1	02/13/22	WB	SW8270D
Isophorone	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/13/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	02/13/22	WB	SW8270D
Phenanthrene	1100	250	ug/Kg	1	02/13/22	WB	SW8270D
Phenol	ND	250	ug/Kg	1	02/13/22	WB	SW8270D
Pyrene	2100	250	ug/Kg	1	02/13/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	91		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	02/13/22	WB	30 - 130 %
% 2-Fluorophenol	54		%	1	02/13/22	WB	30 - 130 %
% Nitrobenzene-d5	73		%	1	02/13/22	WB	30 - 130 %
% Phenol-d5	71		%	1	02/13/22	WB	30 - 130 %
% Terphenyl-d14	107		%	1	02/13/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	108		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	91		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	78		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	94		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	76		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	102		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/14/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

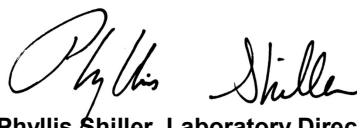
Volatile Comment:

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

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

11:00
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66105

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	5550	50	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	5.27	0.66	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	103	0.33	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.30	0.26	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	11200	50	mg/Kg	10	02/14/22	CPP	SW6010D
Cadmium	1.00	0.33	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	5.65	0.33	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	13.0	0.33	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	30.1	0.7	mg/kg	1	02/14/22	CPP	SW6010D
Iron	12200	50	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.87	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1110	5.0	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	4420	5.0	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	224	3.3	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	363	5.0	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	15.1	0.33	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	156	0.33	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.93	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.58	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.0	3.0	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	20.6	0.33	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	130	0.7	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	89		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	8.43	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.51	0.51	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	78	55	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	160	55	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	238	55	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	Interference		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	Interference		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/14/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/14/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/11/22	B/R/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	13	mg/Kg	50	02/12/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	87		%	50	02/12/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	93		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	91		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	75	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1221	ND	75	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1232	ND	75	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1242	ND	75	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1248	ND	75	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1254	ND	75	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1260	ND	75	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1262	ND	75	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1268	ND	75	ug/Kg	2	02/15/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	71		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	65		%	2	02/15/22	AW	30 - 150 %
% TCMX	68		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	63		%	2	02/15/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	8.8	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	8.7	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	60		%	2	02/16/22	AW	30 - 150 %
% TCMX	44		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	56		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	74		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	77		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	67		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	68		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	72		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	76		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	320	280	mg/Kg	5	02/18/22	AW	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	71		%	5	02/18/22	AW	50 - 150 %
% Terphenyl (surr)	99		%	5	02/18/22	AW	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	24	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	ND	47	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	28	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.4	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	3.8	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	24	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	4.7	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	71	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	02/14/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2-Methylnaphthalene	310	260	ug/Kg	1	02/14/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	02/14/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/14/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/14/22	WB	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	02/14/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/14/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/14/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	02/14/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/14/22	WB	SW8270D
Acenaphthene	660	260	ug/Kg	1	02/14/22	WB	SW8270D
Acenaphthylene	1100	260	ug/Kg	1	02/14/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Anthracene	1800	260	ug/Kg	1	02/14/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Benz(a)anthracene	4100	260	ug/Kg	1	02/14/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Benzo(a)pyrene	4100	260	ug/Kg	1	02/14/22	WB	SW8270D
Benzo(b)fluoranthene	3800	260	ug/Kg	1	02/14/22	WB	SW8270D
Benzo(ghi)perylene	2500	260	ug/Kg	1	02/14/22	WB	SW8270D
Benzo(k)fluoranthene	2600	260	ug/Kg	1	02/14/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/14/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Carbazole	490	370	ug/Kg	1	02/14/22	WB	SW8270D
Chrysene	4200	260	ug/Kg	1	02/14/22	WB	SW8270D
Dibenz(a,h)anthracene	840	190	ug/Kg	1	02/14/22	WB	SW8270D
Dibenzofuran	490	260	ug/Kg	1	02/14/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Di-n-butylphthalate	ND	740	ug/Kg	1	02/14/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Fluoranthene	10000	2600	ug/Kg	10	02/15/22	WB	SW8270D
Fluorene	860	260	ug/Kg	1	02/14/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2700	260	ug/Kg	1	02/14/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Naphthalene	560	260	ug/Kg	1	02/14/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/14/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/14/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/14/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/14/22	WB	SW8270D
Phenanthrene	6300	260	ug/Kg	1	02/14/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/14/22	WB	SW8270D
Pyrene	10000	2600	ug/Kg	10	02/15/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	99		%	1	02/14/22	WB	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	02/14/22	WB	30 - 130 %
% 2-Fluorophenol	54		%	1	02/14/22	WB	30 - 130 %
% Nitrobenzene-d5	67		%	1	02/14/22	WB	30 - 130 %
% Phenol-d5	64		%	1	02/14/22	WB	30 - 130 %
% Terphenyl-d14	108		%	1	02/14/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol (10x)	102		%	10	02/15/22	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	75		%	10	02/15/22	WB	30 - 130 %
% 2-Fluorophenol (10x)	70		%	10	02/15/22	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	79		%	10	02/15/22	WB	30 - 130 %
% Phenol-d5 (10x)	78		%	10	02/15/22	WB	30 - 130 %
% Terphenyl-d14 (10x)	101		%	10	02/15/22	WB	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270

QA/QC Surrogates

% 2,4,6-Tribromophenol	103		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	88		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	75		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	91		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	74		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	100		%	1	02/16/22	WB	30 - 130 %

Semivolatile Library Search Completed 02/14/22 MR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

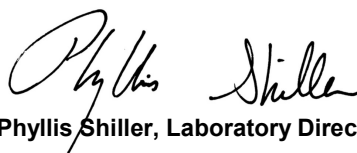
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

12:05
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66106

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH28

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	6120	59	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	8.39	0.79	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	219	0.39	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.57	0.32	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	11500	59	mg/Kg	10	02/14/22	TH	SW6010D
Cadmium	1.63	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	6.41	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	29.0	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	53.2	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	18900	59	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.70	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1300	5.9	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	4080	5.9	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	223	3.9	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	709	5.9	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	19.5	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	362	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	1.18	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	1.19	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.6	3.6	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	34.8	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	243	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	88		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	8.27	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.38	0.38	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	55	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	73	55	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	73	55	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	Interference		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	113		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/14/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/14/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/14/22	B/A	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	7.1	mg/Kg	50	02/15/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	91		%	50	02/15/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	99		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	97		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/15/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	69		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	68		%	2	02/15/22	AW	30 - 150 %
% TCMX	67		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	63		%	2	02/15/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	5.1	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	5.4	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	2.9	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	61		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	60		%	2	02/16/22	AW	30 - 150 %
% TCMX	45		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	56		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	75		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	77		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	61		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	69		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	57		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	59		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	73		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	106		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	27	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	80	S 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	33	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	4.4	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	27	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	82	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/15/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/15/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/15/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthene	360	260	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthylene	590	260	ug/Kg	1	02/15/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Anthracene	1100	260	ug/Kg	1	02/15/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Benz(a)anthracene	3400	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(a)pyrene	3400	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(b)fluoranthene	3200	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(ghi)perylene	1900	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(k)fluoranthene	2300	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	400	260	ug/Kg	1	02/15/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Chrysene	3300	260	ug/Kg	1	02/15/22	WB	SW8270D
Dibenz(a,h)anthracene	470	190	ug/Kg	1	02/15/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Fluoranthene	6800	260	ug/Kg	1	02/15/22	WB	SW8270D
Fluorene	390	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2300	260	ug/Kg	1	02/15/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Naphthalene	280	260	ug/Kg	1	02/15/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Phenanthrene	3600	260	ug/Kg	1	02/15/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Pyrene	6800	260	ug/Kg	1	02/15/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	111		%	1	02/15/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77		%	1	02/15/22	WB	30 - 130 %
% 2-Fluorophenol	67		%	1	02/15/22	WB	30 - 130 %
% Nitrobenzene-d5	82		%	1	02/15/22	WB	30 - 130 %
% Phenol-d5	82		%	1	02/15/22	WB	30 - 130 %
% Terphenyl-d14	88		%	1	02/15/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	104		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	87		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	75		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	92		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	74		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	97		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/15/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

TPH Comment:

The sample chromatogram exhibited non-DRO material outside the C10-C28 range.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

12:30
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66107

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	8050	55	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	4.87	0.73	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	114	0.36	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.34	0.29	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	31600	55	mg/Kg	10	02/14/22	CPP	SW6010D
Cadmium	1.40	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	6.29	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	16.3	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	64.4	0.7	mg/kg	1	02/14/22	CPP	SW6010D
Iron	16100	55	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.37	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1750	5.5	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	7750	55	mg/Kg	10	02/14/22	CPP	SW6010D
Manganese	300	3.6	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	1370	5.5	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	17.6	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	235	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	4.1	3.6	mg/Kg	1	02/14/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.68	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.22	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	27.5	0.36	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	173	0.7	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	87		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr 1
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit 1
pH at 25C - Soil	8.52	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D 1
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90 1
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7 1
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React 1
Total Cyanide (SW9010C Distill.)	< 0.52	0.52	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	57	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1
C9-C28	81	57	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1
Total EPH	81	57	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1

QA/QC Surrogates

% COD (surr)	Interference		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	113		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/14/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/14/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/14/22	B/A	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/14/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	9.4	mg/Kg	50	02/15/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	91		%	50	02/15/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	93		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	93		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/15/22	KCA	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	02/15/22	KCA	30 - 150 %
% DCBP (Confirmation)	64		%	2	02/15/22	KCA	30 - 150 %
% TCMX	63		%	2	02/15/22	KCA	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/15/22	KCA	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	4.2	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	8.2	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	85		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	57		%	2	02/16/22	AW	30 - 150 %
% TCMX	42		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	84		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	86		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	67		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	58		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	74		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	72		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	580	280	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	83		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	93		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
2-Hexanone	ND	28	ug/kg	1	02/12/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/kg	1	02/12/22	JLI	SW8260C
Acetone	130	S 50	ug/kg	1	02/12/22	JLI	SW8260C
Benzene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Bromoform	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Bromomethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Chloroethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Chloroform	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Chloromethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Cyclohexane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Dibromochloromethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Methyl ethyl ketone	ND	33	ug/kg	1	02/12/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/12/22	JLI	SW8260C
Methylacetate	ND	4.4	ug/kg	1	02/12/22	JLI	SW8260C
Methylcyclohexane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Methylene chloride	ND	28	ug/kg	1	02/12/22	JLI	SW8260C
o-Xylene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Styrene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Toluene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Total Xylenes	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Trichloroethene	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/kg	1	02/12/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/12/22	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	02/12/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/12/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/12/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	83	ug/kg	1	02/12/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/15/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/15/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/15/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/15/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/15/22	HM	70 - 130 %
Volatile Library Search	Completed				02/14/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/15/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/15/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/15/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthene	450	260	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthylene	430	260	ug/Kg	1	02/15/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Anthracene	1200	260	ug/Kg	1	02/15/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Benz(a)anthracene	3400	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(a)pyrene	3400	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(b)fluoranthene	3600	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(ghi)perylene	2200	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(k)fluoranthene	2600	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Chrysene	3400	260	ug/Kg	1	02/15/22	WB	SW8270D
Dibenz(a,h)anthracene	690	190	ug/Kg	1	02/15/22	WB	SW8270D
Dibenzofuran	280	260	ug/Kg	1	02/15/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Fluoranthene	7300	260	ug/Kg	1	02/15/22	WB	SW8270D
Fluorene	540	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2500	260	ug/Kg	1	02/15/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Phenanthrene	4300	260	ug/Kg	1	02/15/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Pyrene	6900	260	ug/Kg	1	02/15/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	108		%	1	02/15/22	WB	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	02/15/22	WB	30 - 130 %
% 2-Fluorophenol	65		%	1	02/15/22	WB	30 - 130 %
% Nitrobenzene-d5	85		%	1	02/15/22	WB	30 - 130 %
% Phenol-d5	83		%	1	02/15/22	WB	30 - 130 %
% Terphenyl-d14	92		%	1	02/15/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	91		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	81		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	70		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	83		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	69		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	90		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/15/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

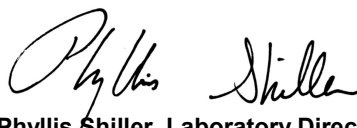
Volatile Comment:

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

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

13:15
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66108

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH30

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	6790	60	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	5.17	0.80	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	234	0.40	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.34	0.32	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	22100	60	mg/Kg	10	02/14/22	CPP	SW6010D
Cadmium	1.45	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	6.20	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	17.5	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	53.1	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	16300	60	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.54	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1340	6.0	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	4840	6.0	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	251	4.0	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	502	6.0	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	16.9	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	532	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.60	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.6	3.6	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	23.3	0.40	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	221	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	89		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit
pH at 25C - Soil	11.0	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	110	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	130	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	240	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	128		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	97		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/14/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/14/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/14/22	B/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	8.2	mg/Kg	50	02/15/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	92		%	50	02/15/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	85		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	84		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1221	ND	73	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1232	ND	73	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1242	ND	73	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1248	ND	73	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1254	ND	73	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1260	ND	73	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1262	ND	73	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1268	ND	73	ug/Kg	2	02/15/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	72		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	72		%	2	02/15/22	AW	30 - 150 %
% TCMX	66		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	02/15/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	19	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	15	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	5.6	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	6.0	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	67		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	66		%	2	02/16/22	AW	30 - 150 %
% TCMX	50		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	53		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	92		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	96		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	63		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	55		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	59		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	59		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	700	280	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	94		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	95		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	30	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	91	S 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	1200	380	ug/kg	50	02/16/22	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	36	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	1000	300	ug/kg	50	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	30	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4 (50x)	94		%	50	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane (50x)	96		%	50	02/16/22	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	02/16/22	JLI	70 - 130 %

1,4-dioxane

1,4-dioxane	ND	91	ug/kg	1	02/15/22	JLI	SW8260C
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TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/16/22	HM	70 - 130 %

Volatile Library Search	Completed				02/16/22	JLI	
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Semivolatiles

1,1-Biphenyl	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/15/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	02/15/22	WB	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	02/15/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/15/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	02/15/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthene	390	260	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthylene	1300	260	ug/Kg	1	02/15/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Anthracene	1600	260	ug/Kg	1	02/15/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Benz(a)anthracene	4400	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(a)pyrene	4100	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(b)fluoranthene	3400	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(ghi)perylene	2200	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(k)fluoranthene	2300	260	ug/Kg	1	02/15/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/15/22	WB	SW8270D
Chrysene	4300	260	ug/Kg	1	02/15/22	WB	SW8270D
Dibenz(a,h)anthracene	560	180	ug/Kg	1	02/15/22	WB	SW8270D
Dibenzofuran	280	260	ug/Kg	1	02/15/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-butylphthalate	ND	730	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Fluoranthene	9700	2600	ug/Kg	10	02/16/22	WB	SW8270D
Fluorene	570	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2400	260	ug/Kg	1	02/15/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Naphthalene	440	260	ug/Kg	1	02/15/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/15/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/15/22	WB	SW8270D
Phenanthrene	4500	260	ug/Kg	1	02/15/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/15/22	WB	SW8270D
Pyrene	9400	2600	ug/Kg	10	02/16/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	80		%	1	02/15/22	WB	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	02/15/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	69		%	1	02/15/22	WB	30 - 130 %
% Nitrobenzene-d5	73		%	1	02/15/22	WB	30 - 130 %
% Phenol-d5	73		%	1	02/15/22	WB	30 - 130 %
% Terphenyl-d14	82		%	1	02/15/22	WB	30 - 130 %
% 2,4,6-Tribromophenol (10x)	99		%	10	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	75		%	10	02/16/22	WB	30 - 130 %
% 2-Fluorophenol (10x)	76		%	10	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	84		%	10	02/16/22	WB	30 - 130 %
% Phenol-d5 (10x)	81		%	10	02/16/22	WB	30 - 130 %
% Terphenyl-d14 (10x)	83		%	10	02/16/22	WB	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270

QA/QC Surrogates

% 2,4,6-Tribromophenol	99		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	84		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	72		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	86		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	72		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	95		%	1	02/16/22	WB	30 - 130 %

Semivolatile Library Search Completed 02/24/22 MR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

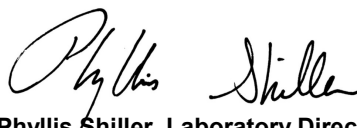
Volatile Comment:

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

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

13:25
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66109

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH31

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.44	0.35	mg/Kg	1	02/14/22	EK	SW6010D
Aluminum	6770	53	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	11.6	0.71	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	218	0.35	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.39	0.28	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	24300	53	mg/Kg	10	02/14/22	CPP	SW6010D
Cadmium	1.66	0.35	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	7.43	0.35	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	25.8	0.35	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	77.9	0.7	mg/kg	1	02/14/22	CPP	SW6010D
Iron	20500	53	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.94	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1720	5.3	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	12200	53	mg/Kg	10	02/14/22	CPP	SW6010D
Manganese	259	3.5	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	1350	5.3	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	25.0	0.35	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	336	0.35	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.98	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	0.22	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.2	3.2	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	24.6	0.35	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	195	0.7	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	87		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr 1
Flash Point	>200	200	Degree F	1	02/15/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/15/22	G	SW846-Ignit 1
pH at 25C - Soil	10.1	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D 1
Reactivity Cyanide	< 5	5	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90 1
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7 1
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React 1
Total Cyanide (SW9010C Distill.)	< 0.52	0.52	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1
C9-C28	360	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1
Total EPH	360	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3 1

QA/QC Surrogates

% COD (surr)	Diluted Out		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	Diluted Out		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/14/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/14/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/14/22	B/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	14	mg/Kg	50	02/15/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	90		%	50	02/15/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	80		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	79		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/15/22	KCA	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/15/22	KCA	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	74		%	2	02/15/22	KCA	30 - 150 %
% DCBP (Confirmation)	65		%	2	02/15/22	KCA	30 - 150 %
% TCMX	73		%	2	02/15/22	KCA	30 - 150 %
% TCMX (Confirmation)	63		%	2	02/15/22	KCA	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	8.9	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	10	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	8.4	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	8.0	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	66		%	2	02/16/22	AW	30 - 150 %
% TCMX	41		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	55		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	84		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	86		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	72		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	66		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	68		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	67		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	1000	290	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	Diluted Out		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	Diluted Out		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,1-Dichloroethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,1-Dichloroethene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,2-Dichloroethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,2-Dichloropropane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
2-Hexanone	ND	13	ug/kg	1	02/14/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	13	ug/kg	1	02/14/22	JLI	SW8260C
Acetone	34	S 26	ug/kg	1	02/14/22	JLI	SW8260C
Benzene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Bromochloromethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Bromodichloromethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Bromoform	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Bromomethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Carbon Disulfide	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Carbon tetrachloride	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Chlorobenzene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Chloroethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Chloroform	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Chloromethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Cyclohexane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Dibromochloromethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Dichlorodifluoromethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Ethylbenzene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Isopropylbenzene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
m&p-Xylene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Methyl ethyl ketone	ND	16	ug/kg	1	02/14/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	5.3	ug/kg	1	02/14/22	JLI	SW8260C
Methylacetate	ND	2.1	ug/kg	1	02/14/22	JLI	SW8260C
Methylcyclohexane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Methylene chloride	ND	13	ug/kg	1	02/14/22	JLI	SW8260C
o-Xylene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Styrene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Tetrachloroethene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Toluene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Total Xylenes	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Trichloroethene	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Trichlorofluoromethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
Vinyl chloride	ND	2.6	ug/kg	1	02/14/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/14/22	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	02/14/22	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	02/14/22	JLI	70 - 130 %
% Toluene-d8	92		%	1	02/14/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	40	ug/kg	1	02/14/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/15/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylnaphthalene	1300	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/15/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/15/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/15/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthene	3400	270	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthylene	590	270	ug/Kg	1	02/15/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Anthracene	5200	270	ug/Kg	1	02/15/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Benz(a)anthracene	9600	2700	ug/Kg	10	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(a)pyrene	7500	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(b)fluoranthene	7600	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(ghi)perylene	3800	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(k)fluoranthene	4600	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Carbazole	2000	380	ug/Kg	1	02/15/22	WB	SW8270D
Chrysene	9300	2700	ug/Kg	10	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	1100	190	ug/Kg	1	02/15/22	WB	SW8270D
Dibenzofuran	2100	270	ug/Kg	1	02/15/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Fluoranthene	24000	2700	ug/Kg	10	02/16/22	WB	SW8270D
Fluorene	3400	270	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	4400	270	ug/Kg	1	02/15/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Naphthalene	1900	270	ug/Kg	1	02/15/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Phenanthrene	25000	2700	ug/Kg	10	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Pyrene	20000	2700	ug/Kg	10	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	93		%	1	02/15/22	WB	30 - 130 %
% 2-Fluorobiphenyl	81		%	1	02/15/22	WB	30 - 130 %
% 2-Fluorophenol	72		%	1	02/15/22	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	02/15/22	WB	30 - 130 %
% Phenol-d5	76		%	1	02/15/22	WB	30 - 130 %
% Terphenyl-d14	95		%	1	02/15/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol (10x)	119		%	10	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	85		%	10	02/16/22	WB	30 - 130 %
% 2-Fluorophenol (10x)	82		%	10	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	85		%	10	02/16/22	WB	30 - 130 %
% Phenol-d5 (10x)	87		%	10	02/16/22	WB	30 - 130 %
% Terphenyl-d14 (10x)	95		%	10	02/16/22	WB	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270

QA/QC Surrogates

% 2,4,6-Tribromophenol	103		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	90		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	78		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	94		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	75		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	101		%	1	02/16/22	WB	30 - 130 %

Semivolatile Library Search Completed 02/24/22 MR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

02/10/22
 02/11/22

Time

13:35
 16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66110

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH32

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Aluminum	7620	59	mg/Kg	10	02/14/22	CPP	SW6010D
Arsenic	4.59	0.79	mg/Kg	1	02/14/22	CPP	SW6010D
Barium	79.7	0.39	mg/Kg	1	02/14/22	EK	SW6010D
Beryllium	0.35	0.31	mg/Kg	1	02/14/22	CPP	SW6010D
Calcium	7590	5.9	mg/Kg	1	02/14/22	CPP	SW6010D
Cadmium	1.14	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Cobalt	6.30	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Chromium	13.2	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Copper	28.3	0.8	mg/kg	1	02/14/22	CPP	SW6010D
Iron	13800	59	mg/Kg	10	02/14/22	TH	SW6010D
Mercury	0.39	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1220	5.9	mg/Kg	1	02/14/22	CPP	SW6010D
Magnesium	3740	5.9	mg/Kg	1	02/14/22	CPP	SW6010D
Manganese	302	3.9	mg/Kg	10	02/14/22	CPP	SW6010D
Sodium	1230	5.9	mg/Kg	1	02/14/22	CPP	SW6010D
Nickel	17.3	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Lead	129	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	02/14/22	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Barium	0.90	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/14/22	AP	SW846 1311/7470
TCLP Lead	1.02	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/14/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.5	3.5	mg/Kg	1	02/14/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/14/22	AB/AB	SW3010A
Vanadium	19.8	0.39	mg/Kg	1	02/14/22	CPP	SW6010D
Zinc	109	0.8	mg/Kg	1	02/14/22	CPP	SW6010D
Percent Solid	86		%		02/11/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/11/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.05	1.00	pH Units	1	02/11/22 22:00	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/14/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/14/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/14/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.53	0.53	mg/Kg	1	02/16/22	BJA/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	57	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	ND	57	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	ND	57	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	122		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	133		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/14/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/14/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/11/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/14/22	B/L	SW3546
TCLP Digestion Mercury	Completed				02/14/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/14/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/11/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/11/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/15/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/11/22	M/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	7.2	mg/Kg	50	02/15/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	87		%	50	02/15/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/16/22	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	02/16/22	JRB	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/16/22	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	85		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	02/16/22	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/15/22	AW	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/15/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	70		%	2	02/15/22	AW	30 - 150 %
% DCBP (Confirmation)	68		%	2	02/15/22	AW	30 - 150 %
% TCMX	69		%	2	02/15/22	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	02/15/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	17	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	12	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	12	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	5.0	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	58		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	61		%	2	02/16/22	AW	30 - 150 %
% TCMX	55		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	54		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	80		%	10	02/16/22	JRB	30 - 150 %
% DCAA (Confirmation)	83		%	10	02/16/22	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	66		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	68		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	63		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	65		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	102		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	106		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,1-Dichloroethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,1-Dichloroethene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,2-Dichloroethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,2-Dichloropropane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
2-Hexanone	ND	52	ug/kg	1	02/13/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	52	ug/kg	1	02/13/22	JLI	SW8260C
Acetone	160	S 50	ug/kg	1	02/13/22	JLI	SW8260C
Benzene	61	60	ug/kg	50	02/15/22	JLI	SW8260C
Bromochloromethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Bromodichloromethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Bromoform	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Bromomethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Carbon Disulfide	24	10	ug/kg	1	02/13/22	JLI	SW8260C
Carbon tetrachloride	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Chlorobenzene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Chloroethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Chloroform	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Chloromethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Cyclohexane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Dibromochloromethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Dichlorodifluoromethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Ethylbenzene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Isopropylbenzene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
m&p-Xylene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Methyl ethyl ketone	ND	63	ug/kg	1	02/13/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	21	ug/kg	1	02/13/22	JLI	SW8260C
Methylacetate	1900	280	ug/kg	50	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Methylene chloride	ND	50	ug/kg	1	02/13/22	JLI	SW8260C
o-Xylene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Styrene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Tetrachloroethene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Toluene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Total Xylenes	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Trichloroethene	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Trichlorofluoromethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
Vinyl chloride	ND	10	ug/kg	1	02/13/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/13/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/13/22	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	02/13/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/13/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane (50x)	86		%	50	02/15/22	JLI	70 - 130 %
% Toluene-d8 (50x)	97		%	50	02/15/22	JLI	70 - 130 %

1,4-dioxane

1,4-dioxane	ND	100	ug/kg	1	02/13/22	JLI	SW8260C
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TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/16/22	HM	70 - 130 %

Volatile Library Search	Completed				02/16/22	JLI	
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Semivolatiles

1,1-Biphenyl	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/15/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/15/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/15/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/15/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/15/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/15/22	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthene	500	270	ug/Kg	1	02/15/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Anthracene	750	270	ug/Kg	1	02/15/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Benz(a)anthracene	1400	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(a)pyrene	1400	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(b)fluoranthene	1200	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(ghi)perylene	820	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzo(k)fluoranthene	1200	270	ug/Kg	1	02/15/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Carbazole	390	380	ug/Kg	1	02/15/22	WB	SW8270D
Chrysene	1300	270	ug/Kg	1	02/15/22	WB	SW8270D
Dibenz(a,h)anthracene	240	190	ug/Kg	1	02/15/22	WB	SW8270D
Dibenzofuran	290	270	ug/Kg	1	02/15/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-butylphthalate	ND	770	ug/Kg	1	02/15/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Fluoranthene	3400	270	ug/Kg	1	02/15/22	WB	SW8270D
Fluorene	420	270	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1000	270	ug/Kg	1	02/15/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Naphthalene	490	270	ug/Kg	1	02/15/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/15/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/15/22	WB	SW8270D
Phenanthrene	2900	270	ug/Kg	1	02/15/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/15/22	WB	SW8270D
Pyrene	2700	270	ug/Kg	1	02/15/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	88		%	1	02/15/22	WB	30 - 130 %
% 2-Fluorobiphenyl	80		%	1	02/15/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	65		%	1	02/15/22	WB	30 - 130 %
% Nitrobenzene-d5	72		%	1	02/15/22	WB	30 - 130 %
% Phenol-d5	71		%	1	02/15/22	WB	30 - 130 %
% Terphenyl-d14	91		%	1	02/15/22	WB	30 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/16/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	109		%	1	02/16/22	WB	15 - 110 %
% 2-Fluorobiphenyl	95		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	82		%	1	02/16/22	WB	15 - 110 %
% Nitrobenzene-d5	96		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	79		%	1	02/16/22	WB	15 - 110 %
% Terphenyl-d14	102		%	1	02/16/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/24/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

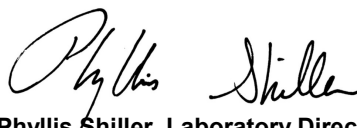
Volatile Comment:

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

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

02/10/22

Time

16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66356

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: TB LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
2-Hexanone	ND	25	ug/kg	1	02/14/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/kg	1	02/14/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/14/22	JLI	SW8260C
Benzene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Bromoform	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Bromomethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Chloroethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Chloromethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Cyclohexane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Dibromochloromethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Methyl ethyl ketone	ND	30	ug/kg	1	02/14/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	02/14/22	JLI	SW8260C
Methylacetate	ND	4.0	ug/kg	1	02/14/22	JLI	SW8260C
Methylcyclohexane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Methylene chloride	ND	25	ug/kg	1	02/14/22	JLI	SW8260C
o-Xylene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Styrene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Toluene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Total Xylenes	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Trichloroethene	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/kg	1	02/14/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	02/14/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/14/22	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	02/14/22	JLI	70 - 130 %
% Toluene-d8	97		%	1	02/14/22	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	75	ug/kg	1	02/14/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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

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

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



Phyllis Shiller, Laboratory Director

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

March 02, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

02/10/22

Time

16:53

Laboratory Data

SDG ID: GCK66091
 Phoenix ID: CK66357

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: TB HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,2-Dibromoethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,2-Dichloroethane	ND	25	ug/kg	50	02/14/22	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
2-Hexanone	ND	1300	ug/kg	50	02/14/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/kg	50	02/14/22	JLI	SW8260C
Acetone	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Benzene	ND	60	ug/kg	50	02/14/22	JLI	SW8260C
Bromochloromethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Bromodichloromethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Bromoform	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Bromomethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Carbon Disulfide	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Chlorobenzene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Chloroethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Chloromethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Cyclohexane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Dibromochloromethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Ethylbenzene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Isopropylbenzene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
m&p-Xylene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Methyl ethyl ketone	ND	120	ug/kg	50	02/14/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	500	ug/kg	50	02/14/22	JLI	SW8260C
Methylacetate	ND	200	ug/kg	50	02/14/22	JLI	SW8260C
Methylcyclohexane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Methylene chloride	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
o-Xylene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Styrene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Tetrachloroethene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Toluene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Total Xylenes	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	190	ug/kg	50	02/14/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Trichloroethene	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/kg	50	02/14/22	JLI	SW8260C
Vinyl chloride	ND	25	ug/kg	50	02/14/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	02/14/22	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	02/14/22	JLI	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	02/14/22	JLI	70 - 130 %
% Toluene-d8 (50x)	98		%	50	02/14/22	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	2000	ug/kg	50	02/14/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

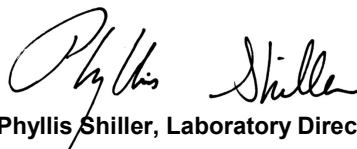
Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

March 02, 2022

Reviewed and Released by: Sarah Bell, Project Manager

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH13

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66091

Sample wt/vol: 4.22 (g/mL) g

Lab File ID: 0211_48.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 11

Date Analyzed: 02/12/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH15

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66093

Sample wt/vol: 3.08 (g/mL) g

Lab File ID: 0211_50.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 14

Date Analyzed: 02/12/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH16

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66094

Sample wt/vol: 4.89 (g/mL) g

Lab File ID: 0211_51.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 11

Date Analyzed: 02/12/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000064-17-5	Ethanol	1.745	69	JN
002153-66-4	Santolina triene	5.488	33	JN
007785-70-8	1R-.alpha.-Pinene	5.829	8.7	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH17

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66095

Sample wt/vol: 2.03 (g/mL) g

Lab File ID: 0211_52.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 21

Date Analyzed: 02/12/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH18

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66096

Sample wt/vol: 5.97 (g/mL) g

Lab File ID: 0211_53.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 5

Date Analyzed: 02/12/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH27

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66105

Sample wt/vol: 5.97 (g/mL) g

Lab File ID: 0211_62.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 11

Date Analyzed: 02/12/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: _____ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): _____ 5000

CONCENTRATION UNITS:

Number TICs found: 8 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	8.099	4.8	JN
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	8.241	7.8	JN
108-05-4	Naphthalene	8.796	200	Q
000091-57-6	Naphthalene, 2-methyl-	9.531	60	JN
000090-12-0	Naphthalene, 1-methyl-	9.630	34	JN
000827-54-3	Naphthalene, 2-ethenyl-	9.934	6.9	JN
000581-42-0	Naphthalene, 2,6-dimethyl-	10.197	6.2	JN
000581-40-8	Naphthalene, 2,3-dimethyl-	10.286	6.1	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH28

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66106

Sample wt/vol: 5.2 (g/mL) g

Lab File ID: 0215_11.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 12

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH29

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66107

Sample wt/vol: 5.22 (g/mL) g

Lab File ID: 0211_64.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 13

Date Analyzed: 02/12/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH30

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66108

Sample wt/vol: 4.61 (g/mL) g

Lab File ID: 0215_13.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 11

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH31

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66109

Sample wt/vol: 10.9 (g/mL) g

Lab File ID: 0214_29.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 13

Date Analyzed: 02/14/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: _____ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): _____ 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH32

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66110

Sample wt/vol: 2.78 (g/mL) g

Lab File ID: 0213_18.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 14

Date Analyzed: 02/13/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH13

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66091

Sample wt/vol: 15.17 (g/mL) g

Lab File ID: 0213_13.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 11 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 13

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.159	2200	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.876	2300	JNC
000486-25-9	9H-Fluoren-9-one	6.903	310	JN
330207-53-9	E-14-Hexadecenal	6.914	1300	JN
	Phenanthrene, 1-methyl- Isomer	7.513	500	JN
000832-69-9	Phenanthrene, 1-methyl-	7.540	600	JN
	unknown hydrocarbon	7.615	820	J
035465-71-5	2-Phenylnaphthalene	7.775	310	JN
003674-66-6	Phenanthrene, 2,5-dimethyl-	8.016	370	JN
000243-17-4	11H-Benzo[b]fluorene	8.679	570	JN
000479-79-8	11H-Benzo[a]fluoren-11-one	9.273	320	JN
001705-84-6	Triphenylene, 2-methyl-	10.401	300	JN
000192-97-2	Benzo[e]pyrene	12.300	740	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH14

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66092

Sample wt/vol: 15.5 (g/mL) g

Lab File ID: 0213_14.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.164	2100	JNA
017312-53-7	Decane, 3,6-dimethyl-	3.416	310	JNC
000629-94-7	Heneicosane	5.684	350	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2600	JNC
074685-29-3	9-Eicosene, (E)-	6.914	1500	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH15

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66093

Sample wt/vol: 15.47 (g/mL) g

Lab File ID: 0213_15.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 14 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 11

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.164	2500	JNA
017301-32-5	Undecane, 4,7-dimethyl-	3.421	340	JNC
	unknown hydrocarbon	4.780	330	J
	unknown hydrocarbon	4.871	360	J
	unknown hydrocarbon	5.652	440	J
000629-94-7	Heneicosane	5.684	460	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2900	JNC
	unknown hydrocarbon	6.599	370	J
000629-73-2	1-Hexadecene	6.914	1900	JN
074685-33-9	3-Eicosene, (E)-	7.652	380	JN
001599-67-3	1-Docosene	8.326	1900	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH16

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66094

Sample wt/vol: 15.37 (g/mL) g

Lab File ID: 0213_16.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 11 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.164	1700	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2400	JNC
000629-73-2	1-Hexadecene	6.914	1600	JN
000930-02-9	Octadecane, 1-(ethenyloxy)-	7.288	580	JN
	unknown hydrocarbon	8.695	500	J
074685-30-6	5-Eicosene, (E)-	9.530	960	JN
1000131-09-4	Z-12-Pentacosene	10.647	1300	JN
	unknown hydrocarbon	10.653	1100	J
	unknown hydrocarbon	11.343	710	J
	unknown hydrocarbon	11.348	760	J
054833-23-7	Eicosane, 10-methyl-	12.027	1500	JN
1000351-78-2	Heptacosyl acetate	12.118	1900	JN
006971-40-0	17-Pentatriacontene	12.124	1100	JN
000630-02-4	Octacosane	13.862	1900	JN
075207-54-4	2-Pentacosanone	15.991	1400	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH17

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66095

Sample wt/vol: 15.05 (g/mL) g

Lab File ID: 0213_17.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 21 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 8 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.165	2000	JNA
	unknown hydrocarbon	4.871	340	J
	unknown hydrocarbon	5.652	560	J
014167-59-0	Tetratriacontane	5.684	460	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	3300	JNC
107678-22-8	1-Methyl-7,11-dithiaspiro[5,5] und	6.599	360	JN
000629-73-2	1-Hexadecene	6.920	2100	JN
1000155-85-3	Cyclohexadecane, 1,2-diethyl-	7.652	370	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH18

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66096

Sample wt/vol: 15.17 (g/mL) g

Lab File ID: 0213_18.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 5 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.165	1400	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2400	JNC
074685-29-3	9-Eicosene, (E)-	6.914	1500	JN
001599-67-3	1-Docosene	9.530	990	JN
	unknown hydrocarbon	10.648	1100	J
	unknown hydrocarbon	10.653	1300	J
	unknown hydrocarbon	11.343	830	J
061142-24-3	Cyclohexane, 1,2,4,5-tetraethyl-,	11.348	650	JN
055124-79-3	Heptadecane, 9-hexyl-	12.022	1200	JN
	unknown hydrocarbon	12.118	1000	J
006920-24-7	Hexadecane-1,2-diol	12.124	970	JN
000630-01-3	Hexacosane	13.862	580	JN
000630-04-6	Hentriacontane	13.867	690	JN
	unknown hydrocarbon	15.772	660	J
075207-54-4	2-Pentacosanone	15.985	820	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH19

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66097

Sample wt/vol: 15.32 (g/mL) g

Lab File ID: 0213_19.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 5 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 4

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.170	1200	JNA
	unknown hydrocarbon	5.652	330	J
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2200	JNC
000629-73-2	1-Hexadecene	6.914	1500	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID BH20

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66098

Sample wt/vol: 15.05 (g/mL) g

Lab File ID: 0213_20.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.164	1800	JNA
	unknown hydrocarbon	5.652	310	J
000646-31-1	Tetracosane	5.684	320	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2200	JNC
074685-29-3	9-Eicosene, (E)-	6.919	1400	JN
1000130-87-5	Z-8-Hexadecene	7.652	310	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH21

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66099

Sample wt/vol: 15.05 (g/mL) g

Lab File ID: 0213_21.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 8 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.165	1800	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2200	JNC
1000130-97-9	E-15-Heptadecenal	6.919	1500	JN
000198-55-0	Perylene	12.311	430	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH22

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66100

Sample wt/vol: 15.12 (g/mL) g

Lab File ID: 0213_22.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 18 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 6 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.164	2100	JNA
	unknown hydrocarbon	5.652	390	J
007225-64-1	Heptadecane, 9-octyl-	5.684	330	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2800	JNC
000112-88-9	1-Octadecene	6.919	1700	JN
035599-77-0	Tridecane, 1-iodo-	12.022	570	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH23

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66101

Sample wt/vol: 15.34 (g/mL) g

Lab File ID: 0213_23.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 14 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.164	1500	JNA
	unknown hydrocarbon	5.652	330	J
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2600	JNC
074685-29-3	9-Eicosene, (E)-	6.919	1600	JN
000243-17-4	11H-Benzo[b]fluorene	8.690	330	JN
000192-97-2	Benzo[e]pyrene	12.311	320	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH24

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66102

Sample wt/vol: 15.41 (g/mL) g

Lab File ID: 0213_24.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 13 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.164	2800	JNA
000544-76-3	Hexadecane	5.695	500	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2300	JNC
000629-73-2	1-Hexadecene	6.919	1300	JN
000949-41-7	1H-Cyclopropa[<i>l</i>]phenanthrene,1a,9b	7.545	340	JN
	unknown hydrocarbon	7.625	450	J
000483-87-4	Phenanthrene, 1,7-dimethyl-	8.021	410	JN
000238-84-6	1H-Benzo[<i>a</i>]fluorene	8.690	440	JN
002541-69-7	Benz[<i>a</i>]anthracene, 7-methyl-	10.423	320	JN
000192-97-2	Benzo[<i>e</i>]pyrene	12.332	940	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH25

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66103

Sample wt/vol: 15.29 (g/mL) g

Lab File ID: 0213_25.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.165	2000	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2500	JNC
000629-73-2	1-Hexadecene	6.919	1200	JN
000832-69-9	Phenanthrene, 1-methyl-	7.519	610	JN
000949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	7.545	680	JN
	unknown hydrocarbon	7.625	1100	J
000612-94-2	Naphthalene, 2-phenyl-	7.781	570	JN
003674-66-6	Phenanthrene, 2,5-dimethyl-	8.021	590	JN
003442-78-2	Pyrene, 2-methyl-	8.690	1100	JN
000479-79-8	11H-Benzo[a]fluoren-11-one	9.294	650	JN
	11H-Benzo[a]fluoren-11-one Isomer	9.567	790	JN
002541-69-7	Benz[a]anthracene, 7-methyl-	10.428	770	JN
000192-97-2	Benzo[e]pyrene	11.958	790	JN
	Benzo[e]pyrene Isomer	12.348	1600	JN
000050-32-8	Benzo[a]pyrene	12.664	840	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66104

Sample wt/vol: 15.35 (g/mL) g

Lab File ID: 0213_26.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 10 decanted:(Y/N) NA

Date Extracted: 02/13/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/13/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.165	2300	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.882	2300	JNC
000112-88-9	1-Octadecene	6.920	1200	JN
	unknown hydrocarbon	7.626	310	J

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH27

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66105

Sample wt/vol: 15.11 (g/mL) g

Lab File ID: 0213_27.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 11 decanted:(Y/N) NA

Date Extracted: 02/14/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/14/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.164	2300	JNA
000575-41-7	Naphthalene, 1,3-dimethyl-	5.470	360	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.887	2200	JNC
074685-29-3	9-Eicosene, (E)-	6.925	750	JN
000132-65-0	Dibenzothiophene	6.989	390	JN
002531-84-2	Phenanthrene, 2-methyl-	7.524	770	JN
000949-41-7	1H-Cyclopropa[<i>l</i>]phenanthrene, 1a,9b	7.551	860	JN
004505-48-0	1H-Indene, 2-phenyl-	7.588	550	JN
	unknown hydrocarbon	7.631	1900	J
000612-94-2	Naphthalene, 2-phenyl-	7.786	620	JN
000084-65-1	9,10-Anthracenedione	7.823	390	JN
000781-43-1	9,10-Dimethylanthracene	8.032	880	JN
	unknown hydrocarbon	8.059	390	J
	unknown hydrocarbon	8.299	350	J
000243-17-4	11H-Benzof[<i>b</i>]fluorene	8.706	1100	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BH28

Lab Name: Phoenix Environmental LabsClient: AES-EASTSIDELab Code: Phoenix Case No.: _____SAS No.: _____ SDG No.: GCK6609Matrix:(soil/water) SOILLab Sample ID: CK66106Sample wt/vol: 15.15 (g/mL) gLab File ID: 0214_28.DLevel: (low/med) LowDate Received: 02/11/22% Moisture: not dec. 12 decanted:(Y/N) NADate Extracted: 02/15/22GPC Cleanup (Y/N): N pH: NADate Analyzed: 2/15/2022Conc. Extract Volume: 1000 (uL)Dilution Factor 1Injection Volume: 1 (uL)Number TICs found: 15 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.872	1300	JNA
035507-09-6	7-Hexadecene, (Z)-	6.508	1100	JN
000613-12-7	Anthracene, 2-methyl-	7.060	560	JN
002531-84-2	Phenanthrene, 2-methyl-	7.084	620	JN
	unknown hydrocarbon	7.166	1300	J
093327-56-1	6-Phenylbenzocyclohepten-7-one	7.319	480	JN
005737-13-3	Cyclopenta(def)phenanthrenone	7.636	580	JN
000243-17-4	11H-Benzo[b]fluorene	8.171	1000	JN
	11H-Benzo[b]fluorene Isomer	8.229	470	JN
	Pyrene, 1-methyl- Isomer	8.265	690	JN
002381-21-7	Pyrene, 1-methyl-	8.370	590	JN
000479-79-8	11H-Benzo[a]fluoren-11-one	8.664	470	JN
	11H-Benzo[a]fluoren-11-one Isomer	8.893	530	JN
002541-69-7	Benz[a]anthracene, 7-methyl-	9.592	610	JN
000207-08-9	Benzo[k]fluoranthene	11.197	2500	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product.

Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH29

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66107

Sample wt/vol: 15.28 (g/mL) g

Lab File ID: 0214_29.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 13 decanted:(Y/N) NA

Date Extracted: 02/15/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/15/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.866	1300	JNA
000629-73-2	1-Hexadecene	6.508	650	JN
000610-48-0	Anthracene, 1-methyl-	7.066	440	JN
000832-69-9	Phenanthrene, 1-methyl-	7.090	500	JN
	unknown hydrocarbon	7.166	1000	J
000612-94-2	Naphthalene, 2-phenyl-	7.325	440	JN
005737-13-3	Cyclopenta(def)phenanthrenone	7.636	620	JN
	unknown hydrocarbon	7.812	500	J
033543-31-6	Fluoranthene, 2-methyl-	8.177	1000	JN
002381-21-7	Pyrene, 1-methyl-	8.229	570	JN
003442-78-2	Pyrene, 2-methyl-	8.265	560	JN
	unknown hydrocarbon	9.199	440	J
1000305-22-4	1H-Benz[f]indene, 2-phenyl-	9.598	460	JN
000192-97-2	Benzo[e]pyrene	11.208	2700	JN
000559-74-0	Friedelan-3-one	17.319	4000	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH30

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66108

Sample wt/vol: 15.29 (g/mL) g

Lab File ID: 0214_29.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 11 decanted:(Y/N) NA

Date Extracted: 02/15/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/15/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.234	1900	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.918	1800	JNC
000296-56-0	Cycloecosane	6.946	1100	JN
000610-48-0	Anthracene, 1-methyl-	7.533	690	JN
002531-84-2	Phenanthrene, 2-methyl-	7.563	1100	JN
000832-69-9	Phenanthrene, 1-methyl-	7.592	540	JN
000203-64-5	4H-Cyclopenta[def]phenanthrene	7.639	2200	JN
	unknown hydrocarbon	7.798	620	J
000781-43-1	9,10-Dimethylanthracene	8.033	1100	JN
	unknown hydrocarbon	8.062	600	J
005737-13-3	Cyclopenta(def)phenanthrenone	8.109	850	JN
	unknown hydrocarbon	8.303	620	J
000238-84-6	11H-Benzo[a]fluorene	8.703	1300	JN
002381-21-7	Pyrene, 1-methyl-	8.761	510	JN
003351-32-4	Chrysene, 2-methyl-	10.454	590	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH31

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66109

Sample wt/vol: 15.07 (g/mL) g

Lab File ID: 0214_30.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 13 decanted:(Y/N) NA

Date Extracted: 02/15/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/15/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.234	2300	JNA
000091-57-6	Naphthalene, 2-methyl-	4.989	1100	JN
000581-42-0	Naphthalene, 2,6-dimethyl-	5.436	660	JN
000571-58-4	Naphthalene, 1,4-dimethyl-	5.512	870	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.918	1800	JNC
	unknown hydrocarbon	6.100	650	J
002245-38-7	Naphthalene, 1,6,7-trimethyl-	6.165	600	JN
059247-36-8	Fluorene, 2,4a-dihydro-	6.358	770	JN
007320-53-8	Dibenzofuran, 4-methyl-	6.423	940	JN
	unknown hydrocarbon	7.645	610	J
002381-21-7	Pyrene, 1-methyl-	8.703	870	JN
000205-99-2	Benz[e]acephenanthrylene	12.028	2300	JN
000207-08-9	Benzo[k]fluoranthene	12.440	4900	JN
000205-82-3	Benzo[j]fluoranthene	12.763	2300	JN
000193-39-5	Indeno[1,2,3-cd]pyrene	16.788	1100	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH32

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6609

Matrix:(soil/water) SOIL

Lab Sample ID: CK66110

Sample wt/vol: 15.2 (g/mL) g

Lab File ID: 0214_31.D

Level: (low/med) Low

Date Received: 02/11/22

% Moisture: not dec. 14 decanted:(Y/N) NA

Date Extracted: 02/15/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/15/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 14 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.234	1800	JNA
	unknown hydrocarbon	5.694	510	J
	unknown hydrocarbon	5.730	340	J
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.918	2300	JNC
1000130-97-9	E-15-Heptadecenal	6.946	1400	JN
000779-02-2	Anthracene, 9-methyl-	7.539	310	JN
000610-48-0	Anthracene, 1-methyl-	7.563	350	JN
	unknown hydrocarbon	7.645	690	J
	unknown hydrocarbon	7.792	310	J
000238-84-6	11H-Benzo[a]fluorene	8.697	670	JN
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	9.425	320	JN
000082-05-3	7H-Benz[de]anthracen-7-one	9.561	360	JN
	unknown hydrocarbon	10.442	340	J
000192-97-2	Benzo[e]pyrene	12.398	740	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.



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



QA/QC Report

March 02, 2022

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 612196 (mg/kg), QC Sample No: CK65693 (CK66104)

Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	117	124	5.8	71.3	88.8	21.9	70 - 130	30
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 612000 (mg/kg), QC Sample No: CK66054 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	98.4	106	7.4	112	103	8.4	70 - 130	30
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 612002 (mg/L), QC Sample No: CK66091 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	121			111			80 - 120	20
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 612001 (mg/kg), QC Sample No: CK66177 2X (CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	124	104	17.5	83.1	83.6	0.6	70 - 130	30
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 612003 (mg/L), QC Sample No: CK66359 (CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	93.3			97.8	82.2	17.3	80 - 120	20
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 612197 (mg/kg), QC Sample No: CK66947 2X (CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	112	112	0.0	118	121	2.5	70 - 130	30
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 612007 (mg/L), QC Sample No: CK65404 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	<0.10	<0.10	NC	109	110	0.9	104			80 - 120	20
Barium	BRL	0.10	0.65	0.80	20.7	103	103	0.0	101			80 - 120	20
Cadmium	BRL	0.050	<0.050	<0.050	NC	104	104	0.0	102			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	100	101	1.0	101			80 - 120	20
Lead	BRL	0.10	0.20	0.21	NC	109	109	0.0	105			80 - 120	20
Selenium	BRL	0.10	<0.10	<0.10	NC	110	111	0.9	102			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	110	111	0.9	103			80 - 120	20

Comment:
 Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 612008 (mg/L), QC Sample No: CK65530 (CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	<0.10	<0.10	NC	109	110	0.9	103			80 - 120	20
Barium	BRL	0.10	0.17	0.20	NC	102	103	1.0	100			80 - 120	20
Cadmium	BRL	0.050	<0.050	<0.050	NC	104	104	0.0	101			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	99.5	100	0.5	99.3			80 - 120	20
Lead	BRL	0.10	<0.10	<0.10	NC	109	109	0.0	104			80 - 120	20
Selenium	BRL	0.10	<0.10	<0.10	NC	109	110	0.9	102			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	111	111	0.0	102			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 611906 (mg/kg), QC Sample No: CK66091 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

ICP Metals - Soil

Aluminum	BRL	5.0	8120	10300	23.7	77.3	86.6	11.3	NC			75 - 125	35
Antimony	BRL	3.3	4.8	<3.7	NC	92.6	93.8	1.3	90.1			75 - 125	35
Arsenic	BRL	0.67	10.3	9.38	9.30	87.5	94.5	7.7	99.1			75 - 125	35
Barium	BRL	0.33	190	202	6.10	99.3	103	3.7	>130			75 - 125	35 m
Beryllium	BRL	0.27	0.58	0.55	NC	98.6	98.2	0.4	102			75 - 125	35
Cadmium	BRL	0.33	2.15	1.86	14.5	110	102	7.5	102			75 - 125	35
Calcium	BRL	5.0	8180	6660	20.5	97.4	94.6	2.9	NC			75 - 125	35
Chromium	BRL	0.33	15.9	19.0	17.8	107	105	1.9	108			75 - 125	35
Cobalt	BRL	0.33	9.16	9.02	1.50	109	102	6.6	104			75 - 125	35
Copper	BRL	0.67	64.0	54.8	15.5	94.2	99.0	5.0	106			75 - 125	35
Iron	BRL	5.0	28600	22100	25.6	80.7	97.8	19.2	NC			75 - 125	35
Lead	BRL	0.33	335	633	61.6	99.5	105	5.4	101			75 - 125	35 r
Magnesium	BRL	5.0	4110	4460	8.20	88.2	94.2	6.6	NC			75 - 125	35
Manganese	BRL	0.33	456	395	14.3	105	102	2.9	79.4			75 - 125	35
Nickel	BRL	0.33	18.2	22.5	21.1	104	99.4	4.5	108			75 - 125	35
Potassium	BRL	5.0	1240	1330	7.00	82.5	90.5	9.2	>130			75 - 125	35 m
Selenium	BRL	1.3	<1.4	<1.5	NC	97.6	99.0	1.4	101			75 - 125	35
Silver	BRL	0.33	<0.36	<0.37	NC	88.9	97.2	8.9	102			75 - 125	35
Sodium	BRL	5.0	230	212	8.10	108	105	2.8	>130			75 - 125	35 m
Thallium	BRL	3.0	<3.2	<3.3	NC	90.6	90.3	0.3	103			75 - 125	35
Vanadium	BRL	0.33	25.3	29.6	15.7	97.1	102	4.9	106			75 - 125	35
Zinc	BRL	0.67	224	233	3.90	104	103	1.0	125			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 613779 (mg/kg), QC Sample No: CK66100 (CK66100)

ICP Metals - Soil

Aluminum	BRL	10	7380	9380	23.9	83.7	83.8	0.1	NC			75 - 125	35
Antimony	BRL	3.3	<4.2	<3.9	NC	90.9	92.6	1.9	90.4			75 - 125	35
Arsenic	BRL	0.67	6.23	4.93	23.3	87.4	86.4	1.2	91.0			75 - 125	35
Barium	BRL	0.33	85.3	935	167	99.4	99.3	0.1	NC			75 - 125	35 r
Beryllium	BRL	0.27	0.38	0.45	NC	92.2	91.8	0.4	98.2			75 - 125	35
Cadmium	BRL	0.33	1.31	1.31	NC	91.4	95.1	4.0	97.0			75 - 125	35
Calcium	BRL	12	2830	7430	89.7	91.0	92.1	1.2	NC			75 - 125	35 r
Chromium	BRL	0.33	18.1	16.8	7.40	99.1	96.8	2.3	100			75 - 125	35
Cobalt	BRL	0.33	5.52	6.69	19.2	93.7	93.9	0.2	93.8			75 - 125	35
Copper	BRL	0.67	35.2	21.2	49.6	88.8	89.4	0.7	91.2			75 - 125	35 r

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Iron	BRL	20	12000	19000	45.2	105	99.0	5.9	NC			75 - 125	35	r
Lead	BRL	0.33	1230	1780	36.5	100	97.7	2.3	NC			75 - 125	35	r
Magnesium	BRL	5.0	1880	2280	19.2	92.3	93.2	1.0	NC			75 - 125	35	
Manganese	BRL	0.50	291	340	15.5	92.7	92.0	0.8	99.2			75 - 125	35	
Nickel	BRL	0.40	18.9	13.8	31.2	92.0	92.3	0.3	99.0			75 - 125	35	
Potassium	BRL	5.0	692	1130	48.1	90.1	92.2	2.3	>130			75 - 125	35	m,r
Selenium	BRL	1.3	<1.7	<1.6	NC	80.2	79.9	0.4	82.8			75 - 125	35	
Silver	BRL	0.33	<0.42	<0.39	NC	91.1	90.2	1.0	93.2			75 - 125	35	
Sodium	BRL	5.0	85.2	219	88.0	91.3	82.4	10.2	87.4			75 - 125	35	r
Thallium	BRL	3.0	<3.8	<3.5	NC	88.5	86.7	2.1	93.6			75 - 125	35	
Vanadium	BRL	0.33	35.8	23.8	40.3	94.8	92.8	2.1	97.4			75 - 125	35	r
Zinc	BRL	1.0	150	301	67.0	94.9	92.1	3.0	77.1			75 - 125	35	r

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 613872 (mg/L), QC Sample No: CK75204 (CK66100)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	<0.10	<0.10	NC	118	119	0.8	106			80 - 120	20
Barium	BRL	0.10	0.13	0.13	NC	109	110	0.9	103			80 - 120	20
Cadmium	BRL	0.050	<0.050	<0.050	NC	108	110	1.8	106			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	106	106	0.0	104			80 - 120	20
Lead	BRL	0.10	<0.10	<0.10	NC	112	113	0.9	108			80 - 120	20
Selenium	BRL	0.10							110			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	117	118	0.9	107			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

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

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

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



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QA/QC Report

March 02, 2022

QA/QC Data

SDG I.D.: GCK66091

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 612011 (mg/Kg), QC Sample No: CK34975 5X (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107)													
Reactivity Cyanide	BRL	5	<6	<5.5	NC	105						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	96.0						80 - 120	30
QA/QC Batch 612202 (mg/Kg), QC Sample No: CK66095 50X (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.58	<0.58	NC	103			99.5			80 - 120	30
Comment: Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 612031 (mg/Kg), QC Sample No: CK66108 5X (CK66108, CK66109, CK66110)													
Reactivity Cyanide	BRL	5	<6	<5.3	NC	105						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	96.0						80 - 120	30
QA/QC Batch 611938 (PH), QC Sample No: CK65693 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107)													
pH at 25C - Soil			7.67	7.67	0	99.2						85 - 115	20
QA/QC Batch 612257 (Degree F), QC Sample No: CK66100 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104)													
Flash Point			>200	>200	NC	100						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 612292 (Degree F), QC Sample No: CK66107 (CK66105, CK66106, CK66107, CK66108, CK66109)													
Flash Point			>200	>200	NC	101						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 611939 (PH), QC Sample No: CK66108 (CK66108, CK66109, CK66110)													
pH at 25C - Soil			11.0	11.0	0	99.0						85 - 115	20
QA/QC Batch 612439 (Degree F), QC Sample No: CK66856 (CK66110)													
Flash Point			>200	>200	NC	100						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													



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QA/QC Report

March 02, 2022

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 611901 (mg/kg), QC Sample No: CK65508 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097)										
<u>Extractable Petroleum Hydrocarbons - Soil</u>										
C9-C28	ND	10	84	91	8.0	84	75	11.3	40 - 140	25
C9-C28 #2 Fuel / Diesel			102	97	5.0				40 - 140	25
>C28-C40	ND	10	66	71	7.3	63	58	8.3	40 - 140	25
C9 - Nonane	ND	3.3	64	65	1.6	73	68	7.1	40 - 140	25
C10 - Decane	ND	3.3	77	82	6.3	87	79	9.6	40 - 140	25
C12 - Dodecane	ND	3.3	85	92	7.9	97	86	12.0	40 - 140	25
C14 - Tetradecane	ND	3.3	89	97	8.6	98	87	11.9	40 - 140	25
C16 - Hexadecane	ND	3.3	90	98	8.5	103	96	7.0	40 - 140	25
C18 - Octadecane	ND	3.3	102	111	8.5	113	107	5.5	40 - 140	25
C20 - Eicosane	ND	3.3	92	100	8.3	89	82	8.2	40 - 140	25
C21 - Heneicosane	ND	3.3	84	96	13.3	77	65	16.9	40 - 140	25
C22 - Docosane	ND	3.3	88	95	7.7	79	61	25.7	40 - 140	25
C24 - Tetracosane	ND	3.3	77	85	9.9	62	55	12.0	40 - 140	25
C26 - Hexacosane	ND	3.3	80	87	8.4	63	55	13.6	40 - 140	25
C28 - Octacosane	ND	3.3	80	88	9.5	63	54	15.4	40 - 140	25
C30 - Tricotane	ND	3.3	80	86	7.2	63	54	15.4	40 - 140	25
C32 - Dotriacontane	ND	3.3	74	82	10.3	64	56	13.3	40 - 140	25
C34 - Tetratriacontane	ND	3.3	70	75	6.9	68	59	14.2	40 - 140	25
C36 - Hexatriacontane	ND	3.3	62	65	4.7	64	61	4.8	40 - 140	25
C38 - Octatriacontane	ND	3.3	56	60	6.9	60	52	14.3	40 - 140	25
C40 - Tetracontane	ND	3.3	57	57	0.0	58	66	12.9	40 - 140	25
% COD (surr)	86	%	91	102	11.4	118	101	15.5	40 - 140	25
% Terphenyl (surr)	95	%	86	94	8.9	94	84	11.2	40 - 140	25

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%
Additional: MS acceptance range 50-150%.

QA/QC Batch 612073 (mg/kg), QC Sample No: CK66108 (CK66098, CK66099, CK66100, CK66101, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

Extractable Petroleum Hydrocarbons - Soil

C9-C28	ND	10	87	81	7.1				40 - 140	25
C9-C28 #2 Fuel / Diesel			65	63	3.1				40 - 140	25
>C28-C40	ND	10	68	69	1.5				40 - 140	25
C9 - Nonane	ND	3.3	64	52	20.7				40 - 140	25
C10 - Decane	ND	3.3	77	68	12.4				40 - 140	25
C12 - Dodecane	ND	3.3	92	87	5.6				40 - 140	25
C14 - Tetradecane	ND	3.3	93	89	4.4				40 - 140	25
C16 - Hexadecane	ND	3.3	100	96	4.1				40 - 140	25
C18 - Octadecane	ND	3.3	68	68	0.0				40 - 140	25
C20 - Eicosane	ND	3.3	97	91	6.4				40 - 140	25
C21 - Heneicosane	ND	3.3	92	86	6.7				40 - 140	25
C22 - Docosane	ND	3.3	89	85	4.6				40 - 140	25

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
C24 - Tetracosane	ND	3.3	89	81	9.4				40 - 140	25
C26 - Hexacosane	ND	3.3	89	82	8.2				40 - 140	25
C28 - Octacosane	ND	3.3	90	83	8.1				40 - 140	25
C30 - Tricotane	ND	3.3	86	80	7.2				40 - 140	25
C32 - Dotriacontane	ND	3.3	80	76	5.1				40 - 140	25
C34 - Tetratriacontane	ND	3.3	72	71	1.4				40 - 140	25
C36 - Hexatriacontane	ND	3.3	62	64	3.2				40 - 140	25
C38 - Octatriacontane	ND	3.3	55	59	7.0				40 - 140	25
C40 - Tetracontane	ND	3.3	54	60	10.5				40 - 140	25
% COD (surr)	116	%	70	67	4.4				40 - 140	25
% Terphenyl (surr)	123	%	66	63	4.7				40 - 140	25

Comment:

The MS/MSD could not be reported due to the presence of EPH in the original sample.

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

Additional: MS acceptance range 50-150%.

QA/QC Batch 612679 (mg/kg), QC Sample No: CK70057 (CK66102)

Extractable Petroleum Hydrocarbons - Soil

C9-C28	ND	10	124	111	11.1	106	107	0.9	40 - 140	25
C9-C28 #2 Fuel / Diesel			110	111	0.9				40 - 140	25
>C28-C40	ND	10	93	73	24.1	93	99	6.3	40 - 140	25
C9 - Nonane	ND	3.3	88	69	24.2	78	82	5.0	40 - 140	25
C10 - Decane	ND	3.3	106	88	18.6	90	94	4.3	40 - 140	25
C12 - Dodecane	ND	3.3	122	103	16.9	100	102	2.0	40 - 140	25
C14 - Tetradecane	ND	3.3	131	120	8.8	109	111	1.8	40 - 140	25
C16 - Hexadecane	ND	3.3	134	118	12.7	113	114	0.9	40 - 140	25
C18 - Octadecane	ND	3.3	146	132	10.1	128	122	4.8	40 - 140	25
C20 - Eicosane	ND	3.3	136	113	18.5	115	116	0.9	40 - 140	25
C21 - Heneicosane	ND	3.3	131	122	7.1	111	112	0.9	40 - 140	25
C22 - Docosane	ND	3.3	127	119	6.5	114	105	8.2	40 - 140	25
C24 - Tetracosane	ND	3.3	123	113	8.5	103	107	3.8	40 - 140	25
C26 - Hexacosane	ND	3.3	124	120	3.3	106	109	2.8	40 - 140	25
C28 - Octacosane	ND	3.3	123	117	5.0	107	110	2.8	40 - 140	25
C30 - Tricotane	ND	3.3	117	105	10.8	104	109	4.7	40 - 140	25
C32 - Dotriacontane	ND	3.3	108	85	23.8	99	104	4.9	40 - 140	25
C34 - Tetratriacontane	ND	3.3	101	73	32.2	98	104	5.9	40 - 140	25
C36 - Hexatriacontane	ND	3.3	88	64	31.6	90	97	7.5	40 - 140	25
C38 - Octatriacontane	ND	3.3	75	56	29.0	83	90	8.1	40 - 140	25
C40 - Tetracontane	ND	3.3	69	59	15.6	82	89	8.2	40 - 140	25
% COD (surr)	86	%	113	100	12.2	90	97	7.5	40 - 140	25
% Terphenyl (surr)	107	%	116	103	11.9	94	98	4.2	40 - 140	25

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

Additional: MS acceptance range 50-150%.

QA/QC Batch 611828 (mg/Kg), QC Sample No: CK66096 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	91	84	8.0	97	83	15.6	30 - 130	30
% COD (surr)	101	%	105	109	3.7	118	67	55.1	50 - 150	30
% Terphenyl (surr)	101	%	108	106	1.9	114	103	10.1	50 - 150	30

QA/QC Data

SDG I.D.: GCK66091

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

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 612072 (mg/Kg), QC Sample No: CK66957 (CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	91	98	7.4	95	101	6.1	30 - 130	30
% COD (surr)	87	%	61	53	14.0	94	100	6.2	50 - 150	30
% Terphenyl (surr)	86	%	94	94	0.0	91	100	9.4	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 612027 (mg/Kg), QC Sample No: CK66092 (CK66091 (50X), CK66092 (50X), CK66093 (50X), CK66094 (50X), CK66095 (50X), CK66096 (50X), CK66097 (50X), CK66098 (50X), CK66099 (50X), CK66100 (50X), CK66101 (50X), CK66102 (50X), CK66103 (50X), CK66104 (50X), CK66105 (50X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	0.10	83	91	9.2	91	92	1.1	70 - 130	30
% 2,5-Dibromotoluene (FID)	92	%	18	17	5.7	87	90	3.4	70 - 130	30

QA/QC Batch 612246 (mg/Kg), QC Sample No: CK66781 (CK66106 (50X), CK66107 (50X), CK66108 (50X), CK66109 (50X), CK66110 (50X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	0.10	78	81	3.8	78	77	1.3	70 - 130	30
% 2,5-Dibromotoluene (FID)	74	%	71	70	1.4	87	86	1.2	70 - 130	30

QA/QC Batch 611823 (ug/Kg), QC Sample No: CK65111 10X (CK66091, CK66092, CK66093, CK66094, CK66095)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	81	69	16.0	58	53	9.0	40 - 140	30
2,4,5-TP (Silvex)	ND	130	84	72	15.4	65	61	6.3	40 - 140	30
2,4-D	ND	250	83	70	17.0	68	66	3.0	40 - 140	30
2,4-DB	ND	2500	75	65	14.3	68	89	26.8	40 - 140	30
Dalapon	ND	130	53	66	21.8	38	34	11.1	40 - 140	30
Dicamba	ND	130	84	90	6.9	68	63	7.6	40 - 140	30
Dichloroprop	ND	130	96	75	24.6	74	75	1.3	40 - 140	30
Dinoseb	ND	130	73	83	12.8	87	80	8.4	40 - 140	30
% DCAA (Surrogate Rec)	104	%	107	98	8.8	98	88	10.8	30 - 150	30
% DCAA (Surrogate Rec) (Confirm)	98	%	101	95	6.1	101	94	7.2	30 - 150	30

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 612017 (ug/L), QC Sample No: CK66094 10X (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

TCLP Herbicides

2,4,5-TP (Silvex)	ND	50	78	97	21.7	79			40 - 140	20
2,4-D	ND	100	82	100	19.8	89			40 - 140	20
% DCAA	67	%	77	96	22.0	81			30 - 150	20
% DCAA (Confirmation)	69	%	148	156	5.3	79			30 - 150	20

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 611905 (ug/Kg), QC Sample No: CK66096 10X (CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	66	69	4.4	60	62	3.3	40 - 140	30
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QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
2,4,5-TP (Silvex)	ND	130	65	69	6.0	62	62	0.0	40 - 140	30
2,4-D	ND	250	68	71	4.3	63	62	1.6	40 - 140	30
2,4-DB	ND	2500	64	68	6.1	63	63	0.0	40 - 140	30
Dalapon	ND	130	61	61	0.0	52	51	1.9	40 - 140	30
Dicamba	ND	130	66	69	4.4	63	63	0.0	40 - 140	30
Dichloroprop	ND	130	83	80	3.7	69	69	0.0	40 - 140	30
Dinoseb	ND	130	73	74	1.4	57	59	3.4	40 - 140	30
% DCAA (Surrogate Rec)	81	%	97	102	5.0	92	90	2.2	30 - 150	30
% DCAA (Surrogate Rec) (Confirm	80	%	101	102	1.0	92	91	1.1	30 - 150	30

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 611865 (ug/Kg), QC Sample No: CK66087 2X (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	68	76	11.1	57	68	17.6	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	91	97	6.4	74	85	13.8	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	103	%	95	111	15.5	82	96	15.7	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	100	%	92	103	11.3	75	88	16.0	30 - 150	30
% TCMX (Surrogate Rec)	80	%	71	84	16.8	63	76	18.7	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	81	%	71	89	22.5	66	79	17.9	30 - 150	30

QA/QC Batch 612090 (ug/Kg), QC Sample No: CK66174 2X (CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	83	88	5.8	72	63	13.3	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	86	92	6.7	74	63	16.1	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	85	%	102	109	6.6	87	85	2.3	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	94	%	103	106	2.9	83	82	1.2	30 - 150	30
% TCMX (Surrogate Rec)	80	%	85	94	10.1	74	67	9.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	82	%	87	94	7.7	73	65	11.6	30 - 150	30

QA/QC Batch 612113 (ug/L), QC Sample No: CK34935 10X (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099)

Pesticides

4,4' -DDD	ND	0.25	77	89	14.5	87			40 - 140	20
4,4' -DDE	ND	0.25	71	81	13.2	80			40 - 140	20
4,4' -DDT	ND	0.25	71	81	13.2	81			40 - 140	20
a-BHC	ND	0.15	71	81	13.2	82			40 - 140	20
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Aldrin	ND	0.15	68	78	13.7	78			40 - 140	20
b-BHC	ND	0.15	65	73	11.6	73			40 - 140	20
Chlordane	ND	5.0	72	82	13.0	82			40 - 140	20
d-BHC	ND	0.50	73	85	15.2	85			40 - 140	20
Dieldrin	ND	0.15	75	86	13.7	86			40 - 140	20
Endosulfan I	ND	0.50	72	82	13.0	76			40 - 140	20
Endosulfan II	ND	0.50	69	79	13.5	81			40 - 140	20
Endosulfan sulfate	ND	0.50	70	79	12.1	79			40 - 140	20
Endrin	ND	0.50	80	90	11.8	89			40 - 140	20
Endrin aldehyde	ND	0.50	60	69	14.0	68			40 - 140	20
g-BHC	ND	0.15	71	81	13.2	80			40 - 140	20
Heptachlor	ND	0.50	68	77	12.4	78			40 - 140	20
Heptachlor epoxide	ND	0.50	66	76	14.1	76			40 - 140	20
Methoxychlor	ND	0.50	70	83	17.0	78			40 - 140	20
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20
% DCBP	82	%	77	82	6.3	80			30 - 150	20
% DCBP (Confirmation)	88	%	75	81	7.7	74			30 - 150	20
% TCMX	63	%	62	69	10.7	70			30 - 150	20
% TCMX (Confirmation)	66	%	64	72	11.8	71			30 - 150	20

QA/QC Batch 611866 (ug/Kg), QC Sample No: CK66087 2X (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103)

Pesticides - Soil

4,4' -DDD	ND	1.7	71	81	13.2	71	79	10.7	40 - 140	30
4,4' -DDE	ND	1.7	74	78	5.3	74	81	9.0	40 - 140	30
4,4' -DDT	ND	1.7	78	91	15.4	81	88	8.3	40 - 140	30
a-BHC	ND	1.0	65	68	4.5	66	70	5.9	40 - 140	30
a-Chlordane	ND	3.3	68	72	5.7	76	87	13.5	40 - 140	30
Aldrin	ND	1.0	76	79	3.9	74	82	10.3	40 - 140	30
b-BHC	ND	1.0	71	79	10.7	70	68	2.9	40 - 140	30
Chlordane	ND	33	75	77	2.6	79	88	10.8	40 - 140	30
d-BHC	ND	3.3	47	52	10.1	45	48	6.5	40 - 140	30
Dieldrin	ND	1.0	78	86	9.8	79	88	10.8	40 - 140	30
Endosulfan I	ND	3.3	72	75	4.1	72	77	6.7	40 - 140	30
Endosulfan II	ND	3.3	78	86	9.8	80	90	11.8	40 - 140	30
Endosulfan sulfate	ND	3.3	71	79	10.7	71	79	10.7	40 - 140	30
Endrin	ND	3.3	72	78	8.0	70	78	10.8	40 - 140	30
Endrin aldehyde	ND	3.3	67	73	8.6	63	69	9.1	40 - 140	30
Endrin ketone	ND	3.3	74	84	12.7	75	85	12.5	40 - 140	30
g-BHC	ND	1.0	71	73	2.8	70	75	6.9	40 - 140	30
g-Chlordane	ND	3.3	75	77	2.6	79	88	10.8	40 - 140	30
Heptachlor	ND	3.3	71	73	2.8	70	76	8.2	40 - 140	30
Heptachlor epoxide	ND	3.3	74	78	5.3	75	82	8.9	40 - 140	30
Methoxychlor	ND	3.3	64	75	15.8	66	75	12.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	88	%	80	86	7.2	80	88	9.5	30 - 150	30
% DCBP (Confirmation)	66	%	61	64	4.8	60	66	9.5	30 - 150	30
% TCMX	62	%	66	63	4.7	67	70	4.4	30 - 150	30
% TCMX (Confirmation)	60	%	65	61	6.3	59	63	6.6	30 - 150	30

QA/QC Batch 612092 (ug/Kg), QC Sample No: CK66174 2X (CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

Pesticides - Soil

4,4' -DDD	ND	1.7	88	93	5.5	73			40 - 140	30
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QA/QC Data

SDG I.D.: GCK66091

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4,4' -DDE	ND	1.7	86	91	5.6	72			40 - 140	30
4,4' -DDT	ND	1.7	98	106	7.8	NC			40 - 140	30
a-BHC	ND	1.0	79	81	2.5	66			40 - 140	30
a-Chlordane	ND	3.3	83	85	2.4	65			40 - 140	30
Aldrin	ND	1.0	86	92	6.7	74			40 - 140	30
b-BHC	ND	1.0	106	116	9.0	99			40 - 140	30
Chlordane	ND	33	84	89	5.8	67			40 - 140	30
d-BHC	ND	3.3	59	62	5.0	47			40 - 140	30
Dieldrin	ND	1.0	93	96	3.2	78			40 - 140	30
Endosulfan I	ND	3.3	82	88	7.1	70			40 - 140	30
Endosulfan II	ND	3.3	98	100	2.0	82			40 - 140	30
Endosulfan sulfate	ND	3.3	83	89	7.0	70			40 - 140	30
Endrin	ND	3.3	78	81	3.8	68			40 - 140	30
Endrin aldehyde	ND	3.3	86	91	5.6	66			40 - 140	30
Endrin ketone	ND	3.3	89	94	5.5	73			40 - 140	30
g-BHC	ND	1.0	81	85	4.8	71			40 - 140	30
g-Chlordane	ND	3.3	84	89	5.8	67			40 - 140	30
Heptachlor	ND	3.3	82	86	4.8	70			40 - 140	30
Heptachlor epoxide	ND	3.3	85	91	6.8	72			40 - 140	30
Methoxychlor	ND	3.3	79	84	6.1	66			40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA			40 - 140	30
% DCBP	92	%	91	95	4.3	107			30 - 150	30
% DCBP (Confirmation)	73	%	72	75	4.1	90			30 - 150	30
% TCMX	70	%	73	78	6.6	61			30 - 150	30
% TCMX (Confirmation)	68	%	68	73	7.1	60			30 - 150	30

Comment:

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

QA/QC Batch 612876 (ug/L), QC Sample No: CK66956 10X (CK66101)

Pesticides

4,4' -DDD	ND	0.25	104	80	26.1	96			40 - 140	20	r
4,4' -DDE	ND	0.25	95	82	14.7	98			40 - 140	20	
4,4' -DDT	ND	0.25	102	95	7.1	99			40 - 140	20	
a-BHC	ND	0.15	79	73	7.9	88			40 - 140	20	
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20	
Aldrin	ND	0.15	93	81	13.8	98			40 - 140	20	
b-BHC	ND	0.15	97	79	20.5	98			40 - 140	20	
Chlordane	ND	5.0	92	81	12.7	95			40 - 140	20	
d-BHC	ND	0.50	75	65	14.3	78			40 - 140	20	
Dieldrin	ND	0.15	101	90	11.5	108			40 - 140	20	
Endosulfan I	ND	0.50	89	77	14.5	99			40 - 140	20	
Endosulfan II	ND	0.50	102	84	19.4	102			40 - 140	20	
Endosulfan sulfate	ND	0.50	94	89	5.5	100			40 - 140	20	
Endrin	ND	0.50	81	78	3.8	92			40 - 140	20	
Endrin aldehyde	ND	0.50	100	80	22.2	92			40 - 140	20	r
g-BHC	ND	0.15	87	78	10.9	96			40 - 140	20	
Heptachlor	ND	0.50	86	74	15.0	91			40 - 140	20	
Heptachlor epoxide	ND	0.50	93	84	10.2	101			40 - 140	20	
Methoxychlor	ND	0.50	81	62	26.6	77			40 - 140	20	r
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20	
% DCBP	90	%	92	91	1.1	96			30 - 150	20	
% DCBP (Confirmation)	71	%	79	73	7.9	77			30 - 150	20	
% TCMX	57	%	68	65	4.5	80			30 - 150	20	

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% TCMX (Confirmation)	66	%	75	71	5.5	79			30 - 150	20	
QA/QC Batch 612067 (ug/kg), QC Sample No: CK65693 (CK66106, CK66107)											
<u>Semivolatiles - Soil</u>											
1,1-Biphenyl	ND	230	78	86	9.8	82	70	15.8	40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230	73	78	6.6	75	65	14.3	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	65	68	4.5	65	56	14.9	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	87	94	7.7	86	73	16.4	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	87	92	5.6	93	76	20.1	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	86	91	5.6	91	76	18.0	30 - 130	30	
2,4-Dichlorophenol	ND	130	86	91	5.6	88	76	14.6	30 - 130	30	
2,4-Dimethylphenol	ND	230	90	96	6.5	94	81	14.9	30 - 130	30	
2,4-Dinitrophenol	ND	230	13	<10	NC	67	41	48.1	30 - 130	30	I,r
2,4-Dinitrotoluene	ND	130	87	92	5.6	90	76	16.9	30 - 130	30	
2,6-Dinitrotoluene	ND	130	82	89	8.2	84	72	15.4	40 - 140	30	
2-Chloronaphthalene	ND	230	84	88	4.7	85	74	13.8	40 - 140	30	
2-Chlorophenol	ND	230	82	87	5.9	82	71	14.4	30 - 130	30	
2-Methylnaphthalene	ND	230	76	80	5.1	79	68	15.0	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	89	94	5.5	92	79	15.2	40 - 140	30	
2-Nitroaniline	ND	330	174	189	8.3	187	161	14.9	40 - 140	30	I,m
2-Nitrophenol	ND	230	95	99	4.1	97	84	14.4	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	83	89	7.0	85	72	16.6	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	78	85	8.6	78	69	12.2	40 - 140	30	
3-Nitroaniline	ND	330	99	106	6.8	94	83	12.4	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	18	16	11.8	80	52	42.4	30 - 130	30	I,r
4-Bromophenyl phenyl ether	ND	230	87	93	6.7	86	74	15.0	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	90	98	8.5	95	83	13.5	30 - 130	30	
4-Chloroaniline	ND	230	87	92	5.6	83	74	11.5	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	83	89	7.0	85	72	16.6	40 - 140	30	
4-Nitroaniline	ND	230	94	105	11.1	100	84	17.4	40 - 140	30	
4-Nitrophenol	ND	230	94	102	8.2	100	84	17.4	30 - 130	30	
Acenaphthene	ND	230	85	91	6.8	87	74	16.1	30 - 130	30	
Acenaphthylene	ND	130	74	79	6.5	76	64	17.1	40 - 140	30	
Acetophenone	ND	230	76	81	6.4	77	66	15.4	40 - 140	30	
Anthracene	ND	230	85	90	5.7	91	76	18.0	40 - 140	30	
Atrazine	ND	130	66	73	10.1	68	57	17.6	40 - 140	30	
Benz(a)anthracene	ND	230	80	85	6.1	85	71	17.9	40 - 140	30	
Benzaldehyde	ND	230	56	41	30.9	29	30	3.4	40 - 140	30	m,r
Benzo(a)pyrene	ND	130	77	83	7.5	81	66	20.4	40 - 140	30	
Benzo(b)fluoranthene	ND	160	79	87	9.6	83	67	21.3	40 - 140	30	
Benzo(ghi)perylene	ND	230	82	93	12.6	91	76	18.0	40 - 140	30	
Benzo(k)fluoranthene	ND	230	78	80	2.5	83	72	14.2	40 - 140	30	
Benzyl butyl phthalate	ND	230	91	97	6.4	94	80	16.1	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	82	85	3.6	83	72	14.2	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	93	77	18.8	72	83	14.2	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	89	97	8.6	91	77	16.7	40 - 140	30	
Caprolactam	ND	230	77	85	9.9	81	68	17.4	40 - 140	30	
Carbazole	ND	230	85	91	6.8	88	74	17.3	40 - 140	30	
Chrysene	ND	230	81	87	7.1	87	70	21.7	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	87	98	11.9	94	78	18.6	40 - 140	30	
Dibenzofuran	ND	230	80	87	8.4	83	70	17.0	40 - 140	30	
Diethyl phthalate	ND	230	87	93	6.7	89	77	14.5	40 - 140	30	
Dimethylphthalate	ND	230	84	91	8.0	85	73	15.2	40 - 140	30	

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Di-n-butylphthalate	ND	670	92	98	6.3	93	81	13.8	40 - 140	30
Di-n-octylphthalate	ND	230	89	98	9.6	93	80	15.0	40 - 140	30
Fluoranthene	ND	230	85	91	6.8	98	76	25.3	40 - 140	30
Fluorene	ND	230	86	92	6.7	90	76	16.9	40 - 140	30
Hexachlorobenzene	ND	130	90	99	9.5	90	81	10.5	40 - 140	30
Hexachlorobutadiene	ND	230	75	78	3.9	77	67	13.9	40 - 140	30
Hexachlorocyclopentadiene	ND	230	47	47	0.0	38	31	20.3	40 - 140	30
Hexachloroethane	ND	130	73	76	4.0	72	65	10.2	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	91	102	11.4	95	80	17.1	40 - 140	30
Isophorone	ND	130	75	79	5.2	77	67	13.9	40 - 140	30
Naphthalene	ND	230	79	82	3.7	81	70	14.6	40 - 140	30
Nitrobenzene	ND	130	85	89	4.6	85	75	12.5	40 - 140	30
N-Nitrosodimethylamine	ND	230	55	55	0.0	50	45	10.5	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	86	91	5.6	86	76	12.3	40 - 140	30
N-Nitrosodiphenylamine	ND	130	80	86	7.2	83	71	15.6	40 - 140	30
Pentachlorophenol	ND	230	54	52	3.8	66	43	42.2	30 - 130	30
Phenanthrene	ND	130	83	90	8.1	93	74	22.8	40 - 140	30
Phenol	ND	230	89	94	5.5	91	78	15.4	30 - 130	30
Pyrene	ND	230	87	94	7.7	100	75	28.6	30 - 130	30
% 2,4,6-Tribromophenol	103	%	101	113	11.2	108	94	13.9	30 - 130	30
% 2-Fluorobiphenyl	75	%	79	85	7.3	83	70	17.0	30 - 130	30
% 2-Fluorophenol	71	%	77	78	1.3	75	65	14.3	30 - 130	30
% Nitrobenzene-d5	77	%	81	86	6.0	83	73	12.8	30 - 130	30
% Phenol-d5	74	%	84	89	5.8	84	73	14.0	30 - 130	30
% Terphenyl-d14	79	%	84	89	5.8	86	73	16.4	30 - 130	30

Comment:

MARS 2

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

QA/QC Batch 611899 (ug/kg), QC Sample No: CK66087 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	80	78	2.5	81	80	1.2	40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	78	75	3.9	76	76	0.0	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	64	61	4.8	65	59	9.7	40 - 140	30
2,3,4,6-tetrachlorophenol	ND	230	86	78	9.8	75	73	2.7	30 - 130	30
2,4,5-Trichlorophenol	ND	230	92	86	6.7	88	87	1.1	40 - 140	30
2,4,6-Trichlorophenol	ND	130	91	87	4.5	87	86	1.2	30 - 130	30
2,4-Dichlorophenol	ND	130	82	79	3.7	81	81	0.0	30 - 130	30
2,4-Dimethylphenol	ND	230	85	83	2.4	74	74	0.0	30 - 130	30
2,4-Dinitrophenol	ND	230	<10	<10	NC	16	11	37.0	30 - 130	30
2,4-Dinitrotoluene	ND	130	89	86	3.4	86	88	2.3	30 - 130	30
2,6-Dinitrotoluene	ND	130	95	90	5.4	93	94	1.1	40 - 140	30
2-Chloronaphthalene	ND	230	83	82	1.2	86	83	3.6	40 - 140	30
2-Chlorophenol	ND	230	75	72	4.1	77	71	8.1	30 - 130	30
2-Methylnaphthalene	ND	230	73	70	4.2	73	73	0.0	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	87	84	3.5	83	80	3.7	40 - 140	30
2-Nitroaniline	ND	330	147	148	0.7	137	127	7.6	40 - 140	30
2-Nitrophenol	ND	230	94	91	3.2	96	94	2.1	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	82	78	5.0	78	76	2.6	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	130	126	3.1	117	112	4.4	40 - 140	30
3-Nitroaniline	ND	330	106	102	3.8	99	97	2.0	40 - 140	30

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4,6-Dinitro-2-methylphenol	ND	230	19	16	17.1	35	27	25.8	30 - 130	30	I,m
4-Bromophenyl phenyl ether	ND	230	95	93	2.1	97	98	1.0	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	90	86	4.5	87	90	3.4	30 - 130	30	
4-Chloroaniline	ND	230	97	91	6.4	93	91	2.2	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	93	92	1.1	94	93	1.1	40 - 140	30	
4-Nitroaniline	ND	230	92	89	3.3	92	92	0.0	40 - 140	30	
4-Nitrophenol	ND	230	78	66	16.7	67	67	0.0	30 - 130	30	
Acenaphthene	ND	230	87	83	4.7	85	86	1.2	30 - 130	30	
Acenaphthylene	ND	130	77	75	2.6	78	76	2.6	40 - 140	30	
Acetophenone	ND	230	74	71	4.1	75	71	5.5	40 - 140	30	
Anthracene	ND	230	92	90	2.2	93	92	1.1	40 - 140	30	
Atrazine	ND	130	72	69	4.3	72	73	1.4	40 - 140	30	
Benz(a)anthracene	ND	230	96	92	4.3	92	92	0.0	40 - 140	30	
Benzaldehyde	ND	230	29	35	18.8	27	20	29.8	40 - 140	30	I,m
Benzo(a)pyrene	ND	130	88	85	3.5	86	87	1.2	40 - 140	30	
Benzo(b)fluoranthene	ND	160	87	86	1.2	87	87	0.0	40 - 140	30	
Benzo(ghi)perylene	ND	230	94	91	3.2	92	93	1.1	40 - 140	30	
Benzo(k)fluoranthene	ND	230	90	88	2.2	86	88	2.3	40 - 140	30	
Benzyl butyl phthalate	ND	230	97	93	4.2	95	96	1.0	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	68	65	4.5	70	68	2.9	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	50	47	6.2	53	47	12.0	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	96	93	3.2	95	95	0.0	40 - 140	30	
Caprolactam	ND	230	71	71	0.0	68	71	4.3	40 - 140	30	
Carbazole	ND	230	89	86	3.4	88	88	0.0	40 - 140	30	
Chrysene	ND	230	96	93	3.2	94	94	0.0	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	99	96	3.1	98	98	0.0	40 - 140	30	
Dibenzofuran	ND	230	81	79	2.5	80	82	2.5	40 - 140	30	
Diethyl phthalate	ND	230	92	91	1.1	92	92	0.0	40 - 140	30	
Dimethylphthalate	ND	230	89	87	2.3	89	89	0.0	40 - 140	30	
Di-n-butylphthalate	ND	670	95	90	5.4	93	94	1.1	40 - 140	30	
Di-n-octylphthalate	ND	230	96	94	2.1	95	96	1.0	40 - 140	30	
Fluoranthene	ND	230	87	84	3.5	85	87	2.3	40 - 140	30	
Fluorene	ND	230	93	90	3.3	92	92	0.0	40 - 140	30	
Hexachlorobenzene	ND	130	111	105	5.6	107	107	0.0	40 - 140	30	
Hexachlorobutadiene	ND	230	75	71	5.5	80	71	11.9	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	45	35	25.0	51	52	1.9	40 - 140	30	I
Hexachloroethane	ND	130	70	65	7.4	73	61	17.9	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	101	100	1.0	102	99	3.0	40 - 140	30	
Isophorone	ND	130	65	63	3.1	65	65	0.0	40 - 140	30	
Naphthalene	ND	230	71	68	4.3	74	69	7.0	40 - 140	30	
Nitrobenzene	ND	130	80	77	3.8	82	76	7.6	40 - 140	30	
N-Nitrosodimethylamine	ND	230	39	36	8.0	42	34	21.1	40 - 140	30	I,m
N-Nitrosodi-n-propylamine	ND	130	83	79	4.9	83	81	2.4	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	85	83	2.4	84	84	0.0	40 - 140	30	
Pentachlorophenol	ND	230	61	38	46.5	41	33	21.6	30 - 130	30	r
Phenanthrene	ND	130	92	88	4.4	91	91	0.0	40 - 140	30	
Phenol	ND	230	81	78	3.8	82	79	3.7	30 - 130	30	
Pyrene	ND	230	89	85	4.6	85	85	0.0	30 - 130	30	
% 2,4,6-Tribromophenol	116	%	114	109	4.5	109	107	1.9	30 - 130	30	
% 2-Fluorobiphenyl	87	%	84	81	3.6	85	84	1.2	30 - 130	30	
% 2-Fluorophenol	69	%	61	59	3.3	62	54	13.8	30 - 130	30	
% Nitrobenzene-d5	80	%	76	74	2.7	80	72	10.5	30 - 130	30	
% Phenol-d5	79	%	76	74	2.7	77	74	4.0	30 - 130	30	

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Terphenyl-d14	88	%	88	83	5.8	83	85	2.4	30 - 130	30

Comment:

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

QA/QC Batch 612277 (ug/L), QC Sample No: CK66091 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	74	60	20.9	66			40 - 140	20	r
2,4,5-Trichlorophenol	ND	17	97	91	6.4	92			40 - 140	20	
2,4,6-Trichlorophenol	ND	17	100	94	6.2	94			30 - 130	20	
2,4-Dinitrotoluene	ND	58	103	99	4.0	96			30 - 130	20	
2-Methylphenol (o-cresol)	ND	17	100	88	12.8	92			40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	17	101	93	8.2	97			30 - 130	20	
Hexachlorobenzene	ND	58	100	94	6.2	93			40 - 140	20	
Hexachlorobutadiene	ND	58	76	68	11.1	70			40 - 140	20	
Hexachloroethane	ND	58	70	61	13.7	64			40 - 140	20	
Nitrobenzene	ND	58	93	86	7.8	87			40 - 140	20	
Pentachlorophenol	ND	58	77	83	7.5	87			30 - 130	20	
Pyridine	ND	83	61	63	3.2	70			40 - 140	20	
% 2,4,6-Tribromophenol	99	%	112	106	5.5	103			15 - 110	20	l
% 2-Fluorobiphenyl	77	%	88	83	5.8	82			30 - 130	20	
% 2-Fluorophenol	64	%	73	57	24.6	65			15 - 110	20	r
% Nitrobenzene-d5	76	%	87	78	10.9	82			30 - 130	20	
% Phenol-d5	64	%	72	61	16.5	66			15 - 110	20	
% Terphenyl-d14	90	%	104	98	5.9	97			30 - 130	20	

Comment:

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

QA/QC Batch 612068 (ug/kg), QC Sample No: CK66177 (CK66108, CK66109, CK66110)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	78	75	3.9	77	77	0.0	40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230	70	69	1.4	69	67	2.9	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	67	62	7.8	60	64	6.5	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	85	83	2.4	79	78	1.3	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	93	92	1.1	85	88	3.5	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	92	89	3.3	85	84	1.2	30 - 130	30	
2,4-Dichlorophenol	ND	130	92	86	6.7	89	86	3.4	30 - 130	30	
2,4-Dimethylphenol	ND	230	84	81	3.6	76	74	2.7	30 - 130	30	
2,4-Dinitrophenol	ND	230	42	28	40.0	50	58	14.8	30 - 130	30	l,r
2,4-Dinitrotoluene	ND	130	86	84	2.4	84	85	1.2	30 - 130	30	
2,6-Dinitrotoluene	ND	130	87	83	4.7	84	83	1.2	40 - 140	30	
2-Chloronaphthalene	ND	230	83	79	4.9	82	80	2.5	40 - 140	30	
2-Chlorophenol	ND	230	86	77	11.0	74	79	6.5	30 - 130	30	
2-Methylnaphthalene	ND	230	77	73	5.3	74	74	0.0	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	97	84	14.4	79	87	9.6	40 - 140	30	
2-Nitroaniline	ND	330	116	114	1.7	112	113	0.9	40 - 140	30	
2-Nitrophenol	ND	230	74	74	0.0	73	72	1.4	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	97	85	13.2	78	86	9.8	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	87	91	4.5	81	80	1.2	40 - 140	30	
3-Nitroaniline	ND	330	103	98	5.0	95	95	0.0	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	54	43	22.7	75	71	5.5	30 - 130	30	

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
4-Bromophenyl phenyl ether	ND	230	83	84	1.2	86	81	6.0	40 - 140	30
4-Chloro-3-methylphenol	ND	230	88	84	4.7	83	82	1.2	30 - 130	30
4-Chloroaniline	ND	230	75	77	2.6	75	69	8.3	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	87	81	7.1	83	83	0.0	40 - 140	30
4-Nitroaniline	ND	230	84	80	4.9	83	81	2.4	40 - 140	30
4-Nitrophenol	ND	230	108	106	1.9	101	105	3.9	30 - 130	30
Acenaphthene	ND	230	83	80	3.7	81	81	0.0	30 - 130	30
Acenaphthylene	ND	130	75	72	4.1	73	71	2.8	40 - 140	30
Acetophenone	ND	230	78	69	12.2	68	73	7.1	40 - 140	30
Anthracene	ND	230	88	87	1.1	86	81	6.0	40 - 140	30
Atrazine	ND	130	67	65	3.0	66	62	6.3	40 - 140	30
Benz(a)anthracene	ND	230	86	84	2.4	82	82	0.0	40 - 140	30
Benzaldehyde	ND	230	38	39	2.6	40	46	14.0	40 - 140	30
Benzo(a)pyrene	ND	130	83	81	2.4	79	78	1.3	40 - 140	30
Benzo(b)fluoranthene	ND	160	84	82	2.4	81	82	1.2	40 - 140	30
Benzo(ghi)perylene	ND	230	91	90	1.1	87	85	2.3	40 - 140	30
Benzo(k)fluoranthene	ND	230	81	77	5.1	76	74	2.7	40 - 140	30
Benzyl butyl phthalate	ND	230	86	87	1.2	84	82	2.4	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	78	73	6.6	76	74	2.7	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	66	59	11.2	59	60	1.7	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	90	89	1.1	89	85	4.6	40 - 140	30
Caprolactam	ND	230	86	85	1.2	80	85	6.1	40 - 140	30
Carbazole	ND	230	86	87	1.2	87	83	4.7	40 - 140	30
Chrysene	ND	230	89	87	2.3	86	84	2.4	40 - 140	30
Dibenz(a,h)anthracene	ND	130	88	89	1.1	85	84	1.2	40 - 140	30
Dibenzofuran	ND	230	78	75	3.9	76	75	1.3	40 - 140	30
Diethyl phthalate	ND	230	80	78	2.5	77	78	1.3	40 - 140	30
Dimethylphthalate	ND	230	81	80	1.2	80	79	1.3	40 - 140	30
Di-n-butylphthalate	ND	670	87	86	1.2	85	80	6.1	40 - 140	30
Di-n-octylphthalate	ND	230	91	88	3.4	87	86	1.2	40 - 140	30
Fluoranthene	ND	230	83	80	3.7	82	77	6.3	40 - 140	30
Fluorene	ND	230	87	83	4.7	82	85	3.6	40 - 140	30
Hexachlorobenzene	ND	130	81	73	10.4	82	74	10.3	40 - 140	30
Hexachlorobutadiene	ND	230	64	62	3.2	67	62	7.8	40 - 140	30
Hexachlorocyclopentadiene	ND	230	58	56	3.5	56	57	1.8	40 - 140	30
Hexachloroethane	ND	130	66	64	3.1	66	60	9.5	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	96	95	1.0	92	89	3.3	40 - 140	30
Isophorone	ND	130	69	65	6.0	66	65	1.5	40 - 140	30
Naphthalene	ND	230	72	71	1.4	73	69	5.6	40 - 140	30
Nitrobenzene	ND	130	81	74	9.0	67	73	8.6	40 - 140	30
N-Nitrosodimethylamine	ND	230	59	60	1.7	63	55	13.6	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	90	75	18.2	72	81	11.8	40 - 140	30
N-Nitrosodiphenylamine	ND	130	84	81	3.6	79	79	0.0	40 - 140	30
Pentachlorophenol	ND	230	94	85	10.1	85	81	4.8	30 - 130	30
Phenanthrene	ND	130	85	83	2.4	82	82	0.0	40 - 140	30
Phenol	ND	230	108	93	14.9	88	99	11.8	30 - 130	30
Pyrene	ND	230	80	78	2.5	78	75	3.9	30 - 130	30
% 2,4,6-Tribromophenol	93	%	92	90	2.2	87	84	3.5	30 - 130	30
% 2-Fluorobiphenyl	85	%	81	78	3.8	78	80	2.5	30 - 130	30
% 2-Fluorophenol	83	%	80	74	7.8	71	74	4.1	30 - 130	30
% Nitrobenzene-d5	71	%	76	68	11.1	66	72	8.7	30 - 130	30
% Phenol-d5	83	%	91	77	16.7	76	83	8.8	30 - 130	30
% Terphenyl-d14	79	%	79	77	2.6	76	72	5.4	30 - 130	30

QA/QC Data

SDG I.D.: GCK66091

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

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

QA/QC Batch 612063 (ug/kg), QC Sample No: CK65264 (CK66110)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	106	106	0.0	101	103	2.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	102	104	1.9	97	94	3.1	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	98	101	3.0	94	92	2.2	70 - 130	30
1,1-Dichloroethane	ND	5.0	97	97	0.0	90	106	16.3	70 - 130	30
1,1-Dichloroethene	ND	5.0	114	112	1.8	104	105	1.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	106	106	0.0	96	88	8.7	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	101	99	2.0	93	84	10.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	120	126	4.9	109	103	5.7	70 - 130	30
1,2-Dibromoethane	ND	5.0	103	106	2.9	101	96	5.1	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	102	104	1.9	98	95	3.1	70 - 130	30
1,2-Dichloroethane	ND	5.0	101	104	2.9	97	96	1.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	99	101	2.0	97	96	1.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	99	98	1.0	94	90	4.3	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	103	103	0.0	96	93	3.2	70 - 130	30
1,4-dioxane	ND	100	109	107	1.9	118	128	8.1	70 - 130	30
2-Hexanone	ND	25	95	100	5.1	92	86	6.7	70 - 130	30
4-Methyl-2-pentanone	ND	25	100	103	3.0	95	90	5.4	70 - 130	30
Acetone	ND	10	96	98	2.1	81	73	10.4	70 - 130	30
Bromochloromethane	ND	5.0	96	99	3.1	95	92	3.2	70 - 130	30
Bromodichloromethane	ND	5.0	106	107	0.9	99	98	1.0	70 - 130	30
Bromoform	ND	5.0	119	124	4.1	104	103	1.0	70 - 130	30
Bromomethane	ND	5.0	107	113	5.5	107	104	2.8	70 - 130	30
Carbon Disulfide	ND	5.0	106	105	0.9	97	98	1.0	70 - 130	30
Carbon tetrachloride	ND	5.0	118	115	2.6	103	107	3.8	70 - 130	30
Chlorobenzene	ND	5.0	103	105	1.9	101	99	2.0	70 - 130	30
Chloroethane	ND	5.0	124	118	5.0	108	113	4.5	70 - 130	30
Chloroform	ND	5.0	95	97	2.1	94	93	1.1	70 - 130	30
Chloromethane	ND	5.0	107	106	0.9	99	101	2.0	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	91	87	4.5	100	97	3.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	106	108	1.9	98	97	1.0	70 - 130	30
Cyclohexane	ND	5.0	101	100	1.0	98	99	1.0	70 - 130	30
Dibromochloromethane	ND	3.0	114	118	3.4	105	104	1.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	132	129	2.3	117	121	3.4	70 - 130	30
Ethylbenzene	ND	1.0	104	105	1.0	102	101	1.0	70 - 130	30
Isopropylbenzene	ND	1.0	107	107	0.0	103	105	1.9	70 - 130	30
m&p-Xylene	ND	2.0	101	102	1.0	99	97	2.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	86	87	1.2	84	75	11.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	106	109	2.8	98	94	4.2	70 - 130	30
Methylcyclohexane	ND	5.0	104	102	1.9	98	102	4.0	70 - 130	30
Methylene chloride	ND	5.0	99	100	1.0	94	93	1.1	70 - 130	30
o-Xylene	ND	2.0	101	103	2.0	98	97	1.0	70 - 130	30
Styrene	ND	5.0	100	102	2.0	98	96	2.1	70 - 130	30
Tetrachloroethene	ND	5.0	101	100	1.0	98	97	1.0	70 - 130	30
Toluene	ND	1.0	100	101	1.0	98	98	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	112	110	1.8	104	102	1.9	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	112	114	1.8	100	99	1.0	70 - 130	30
Trichloroethene	ND	5.0	101	102	1.0	98	99	1.0	70 - 130	30

QA/QC Data

SDG I.D.: GCK66091

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Trichlorofluoromethane	ND	5.0	120	119	0.8	110	112	1.8	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	105	102	2.9	95	95	0.0	70 - 130	30
Vinyl chloride	ND	5.0	116	116	0.0	109	112	2.7	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	101	102	1.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	99	%	100	100	0.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	104	%	98	97	1.0	98	96	2.1	70 - 130	30
% Toluene-d8	94	%	100	100	0.0	101	101	0.0	70 - 130	30

Comment:

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

QA/QC Batch 612036 (ug/kg), QC Sample No: CK65592 (CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66107)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	102	106	3.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	98	103	5.0				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	94	98	4.2				70 - 130	30
1,1-Dichloroethane	ND	5.0	94	93	1.1				70 - 130	30
1,1-Dichloroethene	ND	5.0	108	108	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	103	108	4.7				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	103	107	3.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	109	117	7.1				70 - 130	30
1,2-Dibromoethane	ND	5.0	100	104	3.9				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	101	105	3.9				70 - 130	30
1,2-Dichloroethane	ND	5.0	99	101	2.0				70 - 130	30
1,2-Dichloropropane	ND	5.0	96	99	3.1				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	97	101	4.0				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	101	105	3.9				70 - 130	30
1,4-dioxane	ND	100	103	106	2.9				70 - 130	30
2-Hexanone	ND	25	91	94	3.2				70 - 130	30
4-Methyl-2-pentanone	ND	25	95	99	4.1				70 - 130	30
Acetone	ND	10	91	96	5.3				70 - 130	30
Benzene	ND	1.0	96	99	3.1				70 - 130	30
Bromochloromethane	ND	5.0	94	95	1.1				70 - 130	30
Bromodichloromethane	ND	5.0	102	105	2.9				70 - 130	30
Bromoform	ND	5.0	112	118	5.2				70 - 130	30
Bromomethane	ND	5.0	107	105	1.9				70 - 130	30
Carbon Disulfide	ND	5.0	102	102	0.0				70 - 130	30
Carbon tetrachloride	ND	5.0	107	113	5.5				70 - 130	30
Chlorobenzene	ND	5.0	101	105	3.9				70 - 130	30
Chloroethane	ND	5.0	116	114	1.7				70 - 130	30
Chloroform	ND	5.0	95	97	2.1				70 - 130	30
Chloromethane	ND	5.0	97	99	2.0				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	97	102	5.0				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	100	104	3.9				70 - 130	30
Cyclohexane	ND	5.0	97	100	3.0				70 - 130	30
Dibromochloromethane	ND	3.0	108	114	5.4				70 - 130	30
Dichlorodifluoromethane	ND	5.0	103	104	1.0				70 - 130	30
Ethylbenzene	ND	1.0	102	107	4.8				70 - 130	30
Isopropylbenzene	ND	1.0	104	109	4.7				70 - 130	30
m&p-Xylene	ND	2.0	98	103	5.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	82	88	7.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	101	102	1.0				70 - 130	30

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Methylacetate	ND	5.0	113	111	1.8				70 - 130	30
Methylcyclohexane	ND	5.0	102	106	3.8				70 - 130	30
Methylene chloride	ND	5.0	95	96	1.0				70 - 130	30
o-Xylene	ND	2.0	99	102	3.0				70 - 130	30
Styrene	ND	5.0	98	102	4.0				70 - 130	30
Tetrachloroethene	ND	5.0	98	101	3.0				70 - 130	30
Toluene	ND	1.0	98	101	3.0				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	110	108	1.8				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	103	108	4.7				70 - 130	30
Trichloroethene	ND	5.0	99	102	3.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	115	117	1.7				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	100	102	2.0				70 - 130	30
Vinyl chloride	ND	5.0	109	109	0.0				70 - 130	30
% 1,2-dichlorobenzene-d4	95	%	101	101	0.0				70 - 130	30
% Bromofluorobenzene	99	%	100	100	0.0				70 - 130	30
% Dibromofluoromethane	99	%	97	96	1.0				70 - 130	30
% Toluene-d8	94	%	100	100	0.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

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

QA/QC Batch 612596H (ug/kg), QC Sample No: CK65688 50X (CK66108 (50X))

Volatiles - Soil (High Level)

Benzene	ND	250	107	108	0.9	92	105	13.2	70 - 130	30
Methylacetate	ND	250	103	119	14.4	106	119	11.6	70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	98	99	1.0	98	100	2.0	70 - 130	30
% Bromofluorobenzene	98	%	99	100	1.0	98	97	1.0	70 - 130	30
% Dibromofluoromethane	94	%	92	95	3.2	92	93	1.1	70 - 130	30
% Toluene-d8	93	%	100	99	1.0	99	99	0.0	70 - 130	30

Comment:

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

QA/QC Batch 612238 (ug/kg), QC Sample No: CK66005 (CK66109)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	100	106	5.8	96	100	4.1	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	106	108	1.9	99	105	5.9	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	97	102	5.0	92	98	6.3	70 - 130	30
1,1-Dichloroethane	ND	5.0	94	109	14.8	100	105	4.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	103	106	2.9	96	102	6.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	108	111	2.7	90	93	3.3	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	108	110	1.8	89	95	6.5	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	130	132	1.5	108	120	10.5	70 - 130	30
1,2-Dibromoethane	ND	5.0	107	110	2.8	101	107	5.8	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	107	112	4.6	99	103	4.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	100	105	4.9	96	102	6.1	70 - 130	30
1,2-Dichloropropane	ND	5.0	96	101	5.1	92	97	5.3	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	102	106	3.8	94	99	5.2	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	106	111	4.6	98	103	5.0	70 - 130	30
1,4-dioxane	ND	100	115	121	5.1	106	113	6.4	70 - 130	30
2-Hexanone	ND	25	101	98	3.0	90	96	6.5	70 - 130	30
4-Methyl-2-pentanone	ND	25	101	100	1.0	94	99	5.2	70 - 130	30

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Acetone	ND	10	92	92	0.0	83	87	4.7	70 - 130	30
Benzene	ND	1.0	95	100	5.1	91	95	4.3	70 - 130	30
Bromochloromethane	ND	5.0	96	99	3.1	92	96	4.3	70 - 130	30
Bromodichloromethane	ND	5.0	102	108	5.7	96	102	6.1	70 - 130	30
Bromoform	ND	5.0	124	128	3.2	108	115	6.3	70 - 130	30
Bromomethane	ND	5.0	106	108	1.9	105	109	3.7	70 - 130	30
Carbon Disulfide	ND	5.0	98	100	2.0	89	95	6.5	70 - 130	30
Carbon tetrachloride	ND	5.0	108	115	6.3	97	103	6.0	70 - 130	30
Chlorobenzene	ND	5.0	104	109	4.7	99	104	4.9	70 - 130	30
Chloroethane	ND	5.0	109	115	5.4	101	106	4.8	70 - 130	30
Chloroform	ND	5.0	92	96	4.3	90	93	3.3	70 - 130	30
Chloromethane	ND	5.0	100	103	3.0	92	97	5.3	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	95	99	4.1	95	99	4.1	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	101	110	8.5	95	101	6.1	70 - 130	30
Cyclohexane	ND	5.0	94	96	2.1	89	90	1.1	70 - 130	30
Dibromochloromethane	ND	3.0	117	121	3.4	105	113	7.3	70 - 130	30
Dichlorodifluoromethane	ND	5.0	117	118	0.9	106	110	3.7	70 - 130	30
Ethylbenzene	ND	1.0	104	109	4.7	97	103	6.0	70 - 130	30
Isopropylbenzene	ND	1.0	106	112	5.5	101	103	2.0	70 - 130	30
m&p-Xylene	ND	2.0	101	105	3.9	94	99	5.2	70 - 130	30
Methyl ethyl ketone	ND	5.0	90	86	4.5	80	83	3.7	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	99	103	4.0	95	99	4.1	70 - 130	30
Methylacetate	ND	5.0	112	112	0.0	109	113	3.6	70 - 130	30
Methylcyclohexane	ND	5.0	96	98	2.1	89	88	1.1	70 - 130	30
Methylene chloride	ND	5.0	91	94	3.2	90	94	4.3	70 - 130	30
o-Xylene	ND	2.0	101	105	3.9	96	101	5.1	70 - 130	30
Styrene	ND	5.0	102	107	4.8	95	101	6.1	70 - 130	30
Tetrachloroethene	ND	5.0	97	100	3.0	91	93	2.2	70 - 130	30
Toluene	ND	1.0	98	102	4.0	93	98	5.2	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	104	108	3.8	97	101	4.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	109	114	4.5	99	105	5.9	70 - 130	30
Trichloroethene	ND	5.0	97	103	6.0	92	97	5.3	70 - 130	30
Trichlorofluoromethane	ND	5.0	108	112	3.6	102	106	3.8	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	95	97	2.1	89	91	2.2	70 - 130	30
Vinyl chloride	ND	5.0	108	113	4.5	102	105	2.9	70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	100	100	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	97	%	100	99	1.0	99	99	0.0	70 - 130	30
% Dibromofluoromethane	96	%	94	94	0.0	94	95	1.1	70 - 130	30
% Toluene-d8	92	%	99	100	1.0	98	99	1.0	70 - 130	30

Comment:

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

QA/QC Batch 612430 (ug/L), QC Sample No: CK66096 (CK66091 (10X), CK66092 (10X), CK66093 (10X), CK66094 (10X), CK66095 (10X), CK66096 (10X), CK66097 (10X), CK66098 (10X), CK66099 (10X), CK66100 (10X), CK66101 (10X), CK66102 (10X), CK66103 (10X), CK66104 (10X), CK66105 (10X), CK66106 (10X), CK66107 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	97	99	2.0	96	107	10.8	70 - 130	30
1,2-Dichloroethane	ND	0.60	100	100	0.0	101	109	7.6	70 - 130	30
Benzene	ND	0.70	100	100	0.0	98	108	9.7	70 - 130	30
Carbon tetrachloride	ND	5.0	117	114	2.6	107	129	18.6	70 - 130	30
Chlorobenzene	ND	1.0	102	103	1.0	99	110	10.5	70 - 130	30
Chloroform	ND	5.0	101	100	1.0	98	109	10.6	70 - 130	30
Methyl ethyl ketone	ND	5.0	92	96	4.3	98	105	6.9	70 - 130	30

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Tetrachloroethene	ND	1.0	101	102	1.0	97	113	15.2	70 - 130	30
Trichloroethene	ND	5.0	103	103	0.0	100	112	11.3	70 - 130	30
Vinyl chloride	ND	5.0	98	99	1.0	98	114	15.1	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	98	98	0.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	95	%	102	103	1.0	103	103	0.0	70 - 130	30
% Dibromofluoromethane	100	%	103	101	2.0	100	102	2.0	70 - 130	30
% Toluene-d8	100	%	100	101	1.0	100	100	0.0	70 - 130	30

Comment:

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

QA/QC Batch 612432H (ug/kg), QC Sample No: CK66110 50X (CK66110 (50X))

Volatiles - Soil (High Level)

Benzene	ND	250	110	112	1.8	106	110	3.7	70 - 130	30
Methylacetate	ND	250	113	109	3.6	104	102	1.9	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	98	99	1.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	97	%	102	102	0.0	102	102	0.0	70 - 130	30
% Dibromofluoromethane	89	%	91	90	1.1	88	91	3.4	70 - 130	30
% Toluene-d8	99	%	99	99	0.0	98	98	0.0	70 - 130	30

Comment:

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

QA/QC Batch 612244 (ug/kg), QC Sample No: CK66232 (CK66356)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	97	104	7.0	89	107	18.4	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	91	89	2.2	129	128	0.8	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	93	95	2.1	106	108	1.9	70 - 130	30
1,1-Dichloroethane	ND	5.0	93	99	6.3	93	106	13.1	70 - 130	30
1,1-Dichloroethene	ND	5.0	96	100	4.1	89	108	19.3	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	106	110	3.7	56	63	11.8	70 - 130	30 m
1,2,4-Trichlorobenzene	ND	5.0	106	110	3.7	61	70	13.7	70 - 130	30 m
1,2-Dibromo-3-chloropropane	ND	5.0	105	103	1.9	127	129	1.6	70 - 130	30
1,2-Dibromoethane	ND	5.0	98	98	0.0	115	115	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	94	97	3.1	97	106	8.9	70 - 130	30
1,2-Dichloroethane	ND	5.0	92	94	2.2	103	107	3.8	70 - 130	30
1,2-Dichloropropane	ND	5.0	90	95	5.4	96	105	9.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	95	99	4.1	97	110	12.6	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	95	100	5.1	97	109	11.7	70 - 130	30
1,4-dioxane	ND	100	92	106	14.1	104	118	12.6	70 - 130	30
2-Hexanone	ND	25	86	82	4.8	118	107	9.8	70 - 130	30
4-Methyl-2-pentanone	ND	25	92	87	5.6	118	107	9.8	70 - 130	30
Acetone	ND	10	66	65	1.5	119	106	11.6	70 - 130	30 l
Benzene	ND	1.0	94	100	6.2	96	108	11.8	70 - 130	30
Bromochloromethane	ND	5.0	91	96	5.3	101	106	4.8	70 - 130	30
Bromodichloromethane	ND	5.0	95	100	5.1	95	106	10.9	70 - 130	30
Bromoform	ND	5.0	107	108	0.9	98	110	11.5	70 - 130	30
Bromomethane	ND	5.0	85	92	7.9	88	99	11.8	70 - 130	30
Carbon Disulfide	ND	5.0	90	96	6.5	82	97	16.8	70 - 130	30
Carbon tetrachloride	ND	5.0	102	110	7.5	80	105	27.0	70 - 130	30
Chlorobenzene	ND	5.0	94	100	6.2	98	109	10.6	70 - 130	30
Chloroethane	ND	5.0	96	107	10.8	92	106	14.1	70 - 130	30
Chloroform	ND	5.0	92	96	4.3	93	104	11.2	70 - 130	30
Chloromethane	ND	5.0	91	96	5.3	81	100	21.0	70 - 130	30

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
cis-1,2-Dichloroethene	ND	5.0	84	101	18.4	89	96	7.6	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	100	105	4.9	99	110	10.5	70 - 130	30
Cyclohexane	ND	5.0	96	103	7.0	83	101	19.6	70 - 130	30
Dibromochloromethane	ND	3.0	100	107	6.8	102	115	12.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	94	100	6.2	83	101	19.6	70 - 130	30
Ethylbenzene	ND	1.0	97	104	7.0	97	111	13.5	70 - 130	30
Isopropylbenzene	ND	1.0	96	103	7.0	112	132	16.4	70 - 130	30
m&p-Xylene	ND	2.0	96	104	8.0	97	110	12.6	70 - 130	30
Methyl ethyl ketone	ND	5.0	78	78	0.0	105	94	11.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	93	91	2.2	107	106	0.9	70 - 130	30
Methylacetate	ND	5.0	90	87	3.4	117	108	8.0	70 - 130	30
Methylcyclohexane	ND	5.0	96	103	7.0	73	91	22.0	70 - 130	30
Methylene chloride	ND	5.0	72	73	1.4	80	87	8.4	70 - 130	30
o-Xylene	ND	2.0	95	100	5.1	96	108	11.8	70 - 130	30
Styrene	ND	5.0	99	104	4.9	98	109	10.6	70 - 130	30
Tetrachloroethene	ND	5.0	94	101	7.2	86	102	17.0	70 - 130	30
Toluene	ND	1.0	94	102	8.2	95	107	11.9	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	96	100	4.1	90	105	15.4	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	108	109	0.9	105	112	6.5	70 - 130	30
Trichloroethene	ND	5.0	94	101	7.2	92	108	16.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	97	107	9.8	89	106	17.4	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	87	92	5.6	79	96	19.4	70 - 130	30
Vinyl chloride	ND	5.0	96	103	7.0	89	107	18.4	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	99	1.0	99	98	1.0	70 - 130	30
% Bromofluorobenzene	97	%	101	101	0.0	94	93	1.1	70 - 130	30
% Dibromofluoromethane	96	%	100	98	2.0	94	97	3.1	70 - 130	30
% Toluene-d8	98	%	100	100	0.0	99	97	2.0	70 - 130	30

Comment:

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

QA/QC Batch 612244H (ug/kg), QC Sample No: CK66232 50X (CK66357 (50X))

Volatiles - Soil (High Level)

1,1,1-Trichloroethane	ND	250	105	103	1.9	80	86	7.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	108	109	0.9	97	103	6.0	70 - 130	30
1,1,2-Trichloroethane	ND	250	109	109	0.0	101	104	2.9	70 - 130	30
1,1-Dichloroethane	ND	250	106	107	0.9	93	96	3.2	70 - 130	30
1,1-Dichloroethene	ND	250	75	71	5.5	63	63	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	128	130	1.6	136	124	9.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	131	132	0.8	129	119	8.1	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	114	115	0.9	89	98	9.6	70 - 130	30
1,2-Dibromoethane	ND	250	113	112	0.9	100	107	6.8	70 - 130	30
1,2-Dichlorobenzene	ND	250	117	116	0.9	103	106	2.9	70 - 130	30
1,2-Dichloroethane	ND	250	106	105	0.9	99	100	1.0	70 - 130	30
1,2-Dichloropropane	ND	250	108	107	0.9	97	99	2.0	70 - 130	30
1,3-Dichlorobenzene	ND	250	118	120	1.7	104	106	1.9	70 - 130	30
1,4-Dichlorobenzene	ND	250	120	120	0.0	104	106	1.9	70 - 130	30
1,4-dioxane	ND	5000	120	123	2.5	102	107	4.8	70 - 130	30
2-Hexanone	ND	1300	101	105	3.9	96	102	6.1	70 - 130	30
4-Methyl-2-pentanone	ND	1300	105	108	2.8	101	105	3.9	70 - 130	30
Acetone	ND	500	58	56	3.5	57	60	5.1	70 - 130	30
Benzene	ND	250	112	111	0.9	101	101	0.0	70 - 130	30
Bromochloromethane	ND	250	104	107	2.8	95	99	4.1	70 - 130	30

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Bromodichloromethane	ND	250	101	98	3.0	79	87	9.6	70 - 130	30	
Bromoform	ND	250	104	99	4.9	73	84	14.0	70 - 130	30	
Bromomethane	ND	250	81	82	1.2	67	71	5.8	70 - 130	30	m
Carbon Disulfide	ND	250	74	70	5.6	62	63	1.6	70 - 130	30	m
Carbon tetrachloride	ND	250	90	85	5.7	54	65	18.5	70 - 130	30	m
Chlorobenzene	ND	250	114	114	0.0	101	102	1.0	70 - 130	30	
Chloroethane	ND	250	45	46	2.2	42	41	2.4	70 - 130	30	l,m
Chloroform	ND	250	100	105	4.9	91	93	2.2	70 - 130	30	
Chloromethane	ND	250	101	101	0.0	88	87	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	95	103	8.1	91	87	4.5	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	109	106	2.8	86	95	9.9	70 - 130	30	
Cyclohexane	ND	250	113	113	0.0	96	96	0.0	70 - 130	30	
Dibromochloromethane	ND	150	104	101	2.9	79	88	10.8	70 - 130	30	
Dichlorodifluoromethane	ND	250	102	102	0.0	86	87	1.2	70 - 130	30	
Ethylbenzene	ND	250	119	119	0.0	104	107	2.8	70 - 130	30	
Isopropylbenzene	ND	250	118	118	0.0	102	103	1.0	70 - 130	30	
m&p-Xylene	ND	250	120	119	0.8	104	105	1.0	70 - 130	30	
Methyl ethyl ketone	ND	250	91	96	5.3	86	92	6.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	102	104	1.9	95	99	4.1	70 - 130	30	
Methylacetate	ND	250	108	110	1.8	97	104	7.0	70 - 130	30	
Methylcyclohexane	ND	250	115	110	4.4	99	98	1.0	70 - 130	30	
Methylene chloride	ND	250	77	77	0.0	55	56	1.8	70 - 130	30	m
o-Xylene	ND	250	118	118	0.0	104	105	1.0	70 - 130	30	
Styrene	ND	250	121	122	0.8	108	109	0.9	70 - 130	30	
Tetrachloroethene	ND	250	118	115	2.6	104	100	3.9	70 - 130	30	
Toluene	ND	250	113	114	0.9	102	103	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	105	104	1.0	93	92	1.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	115	113	1.8	86	97	12.0	70 - 130	30	
Trichloroethene	ND	250	115	112	2.6	102	102	0.0	70 - 130	30	
Trichlorofluoromethane	ND	250	39	40	2.5	34	34	0.0	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	68	64	6.1	57	58	1.7	70 - 130	30	l,m
Vinyl chloride	ND	250	105	107	1.9	91	92	1.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	99	100	1.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	102	103	1.0	102	102	0.0	70 - 130	30	
% Dibromofluoromethane	92	%	97	96	1.0	92	90	2.2	70 - 130	30	
% Toluene-d8	100	%	99	99	0.0	101	99	2.0	70 - 130	30	

Comment:

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

QA/QC Batch 612411 (ug/kg), QC Sample No: CK66780 (CK66106, CK66108)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	103	104	1.0				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	102	104	1.9				70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	95	95	0.0				70 - 130	30	
1,1-Dichloroethane	ND	5.0	107	107	0.0				70 - 130	30	
1,1-Dichloroethene	ND	5.0	103	105	1.9				70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	100	103	3.0				70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	95	99	4.1				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	111	116	4.4				70 - 130	30	
1,2-Dibromoethane	ND	5.0	104	105	1.0				70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	105	107	1.9				70 - 130	30	
1,2-Dichloroethane	ND	5.0	101	103	2.0				70 - 130	30	

QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
1,2-Dichloropropane	ND	5.0	97	98	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	99	101	2.0				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	103	105	1.9				70 - 130	30
1,4-dioxane	ND	100	113	122	7.7				70 - 130	30
2-Hexanone	ND	25	93	89	4.4				70 - 130	30
4-Methyl-2-pentanone	ND	25	94	92	2.2				70 - 130	30
Acetone	ND	10	83	86	3.6				70 - 130	30
Benzene	ND	1.0	97	98	1.0				70 - 130	30
Bromochloromethane	ND	5.0	96	95	1.0				70 - 130	30
Bromodichloromethane	ND	5.0	103	105	1.9				70 - 130	30
Bromoform	ND	5.0	118	117	0.9				70 - 130	30
Bromomethane	ND	5.0	104	105	1.0				70 - 130	30
Carbon Disulfide	ND	5.0	94	97	3.1				70 - 130	30
Carbon tetrachloride	ND	5.0	110	112	1.8				70 - 130	30
Chlorobenzene	ND	5.0	104	105	1.0				70 - 130	30
Chloroethane	ND	5.0	107	113	5.5				70 - 130	30
Chloroform	ND	5.0	96	96	0.0				70 - 130	30
Chloromethane	ND	5.0	97	97	0.0				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	97	98	1.0				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	101	103	2.0				70 - 130	30
Cyclohexane	ND	5.0	95	94	1.1				70 - 130	30
Dibromochloromethane	ND	3.0	115	116	0.9				70 - 130	30
Dichlorodifluoromethane	ND	5.0	105	101	3.9				70 - 130	30
Ethylbenzene	ND	1.0	105	106	0.9				70 - 130	30
Isopropylbenzene	ND	1.0	108	111	2.7				70 - 130	30
m&p-Xylene	ND	2.0	102	102	0.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	80	80	0.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	96	98	2.1				70 - 130	30
Methylacetate	ND	5.0	100	103	3.0				70 - 130	30
Methylcyclohexane	ND	5.0	98	97	1.0				70 - 130	30
Methylene chloride	ND	5.0	90	92	2.2				70 - 130	30
o-Xylene	ND	2.0	102	102	0.0				70 - 130	30
Styrene	ND	5.0	102	103	1.0				70 - 130	30
Tetrachloroethene	ND	5.0	95	94	1.1				70 - 130	30
Toluene	ND	1.0	98	100	2.0				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	103	105	1.9				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	106	109	2.8				70 - 130	30
Trichloroethene	ND	5.0	98	99	1.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	108	109	0.9				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	93	94	1.1				70 - 130	30
Vinyl chloride	ND	5.0	109	107	1.9				70 - 130	30
% 1,2-dichlorobenzene-d4	93	%	100	99	1.0				70 - 130	30
% Bromofluorobenzene	98	%	99	98	1.0				70 - 130	30
% Dibromofluoromethane	96	%	94	93	1.1				70 - 130	30
% Toluene-d8	92	%	98	100	2.0				70 - 130	30

Comment:

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

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

QA/QC Batch 612595 (ug/L), QC Sample No: CK66957 (CK66108 (10X) , CK66109 (10X) , CK66110 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	97	96	1.0	103	109	5.7	70 - 130	30
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QA/QC Data

SDG I.D.: GCK66091

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
1,2-Dichloroethane	ND	0.60	104	102	1.9	105	111	5.6	70 - 130	30
Benzene	ND	0.70	100	98	2.0	103	109	5.7	70 - 130	30
Carbon tetrachloride	ND	5.0	118	114	3.4	122	129	5.6	70 - 130	30
Chlorobenzene	ND	1.0	103	102	1.0	105	111	5.6	70 - 130	30
Chloroform	ND	5.0	102	101	1.0	106	112	5.5	70 - 130	30
Methyl ethyl ketone	ND	5.0	101	104	2.9	99	106	6.8	70 - 130	30
Tetrachloroethene	ND	1.0	103	103	0.0	107	110	2.8	70 - 130	30
Trichloroethene	ND	5.0	103	100	3.0	107	113	5.5	70 - 130	30
Vinyl chloride	ND	5.0	98	100	2.0	102	110	7.5	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	95	%	102	104	1.9	104	104	0.0	70 - 130	30
% Dibromofluoromethane	98	%	101	101	0.0	104	100	3.9	70 - 130	30
% Toluene-d8	98	%	100	100	0.0	100	99	1.0	70 - 130	30


Comment:

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

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

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

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


 Phyllis Shiller, Laboratory Director
 March 02, 2022

Wednesday, March 02, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCK66091 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66091	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1200	260	1000	1000	ug/Kg
CK66091	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	260	1000	1000	ug/Kg
CK66091	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	260	1000	1000	ug/Kg
CK66091	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	770	260	500	500	ug/Kg
CK66091	\$8270_TCLR	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1500	260	1000	1000	ug/Kg
CK66091	\$8270_TCLR	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	260	1000	1000	ug/Kg
CK66091	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	260	1000	1000	ug/Kg
CK66091	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	1000	1000	ug/Kg
CK66091	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	800	800	ug/Kg
CK66091	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	260	1000	1000	ug/Kg
CK66091	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	770	260	500	500	ug/Kg
CK66091	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	64.0	0.7	50	50	mg/kg
CK66091	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.52	0.03	0.18	0.18	mg/Kg
CK66091	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	335	0.36	63	63	mg/Kg
CK66091	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	224	0.7	109	109	mg/Kg
CK66092	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	3.9	2.3	3.3	3.3	ug/Kg
CK66092	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	133	0.8	50	50	mg/kg
CK66092	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.20	0.03	0.18	0.18	mg/Kg
CK66092	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	169	0.38	63	63	mg/Kg
CK66092	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	157	0.8	109	109	mg/Kg
CK66093	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	14.5	0.80	13	13	mg/Kg
CK66093	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	34.6	0.40	30	30	mg/Kg
CK66094	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	30	2.2	3.3	3.3	ug/Kg
CK66094	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	18	2.2	3.3	3.3	ug/Kg
CK66094	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	52.9	0.7	50	50	mg/kg
CK66094	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.46	0.03	0.18	0.18	mg/Kg
CK66094	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	234	0.34	63	63	mg/Kg
CK66094	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	135	0.7	109	109	mg/Kg
CK66096	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	7.0	2.1	3.3	3.3	ug/Kg
CK66096	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	16	2.1	3.3	3.3	ug/Kg
CK66096	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.1	2.1	3.3	3.3	ug/Kg
CK66096	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	15.7	0.75	13	13	mg/Kg
CK66096	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.49	0.03	0.18	0.18	mg/Kg
CK66097	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	131	7.1	50	50	mg/kg
CK66097	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	222	0.7	109	109	mg/Kg
CK66098	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	90.5	0.8	50	50	mg/kg
CK66098	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.24	0.03	0.18	0.18	mg/Kg

Wednesday, March 02, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCK66091 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66098	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	72.5	0.39	63	63	mg/Kg
CK66098	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	305	0.8	109	109	mg/Kg
CK66099	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	580	250	500	500	ug/Kg
CK66099	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	580	250	500	500	ug/Kg
CK66099	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	32.2	0.32	30		mg/Kg
CK66099	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.59	0.07	0.81	0.81	mg/Kg
CK66099	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.59	0.07	0.18	0.18	mg/Kg
CK66099	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	39.8	0.32	30	30	mg/Kg
CK66099	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	137	0.32	63	63	mg/Kg
CK66099	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	113	0.6	109	109	mg/Kg
CK66100	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	40	2.4	3.3	3.3	ug/Kg
CK66100	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	40	2.4	3.3	3.3	ug/Kg
CK66100	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.30	0.03	0.18	0.18	mg/Kg
CK66100	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	1230	4.0	1000	1000	mg/Kg
CK66100	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	1230	4.0	400	400	mg/Kg
CK66100	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	1230	4.0	63	63	mg/Kg
CK66100	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	150	0.8	109	109	mg/Kg
CK66101	HG-SM	Mercury	NY / 375-6.8 Metals / Commercial	13.7	0.67	2.8	2.8	mg/Kg
CK66101	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	13.7	0.67	0.81	0.81	mg/Kg
CK66101	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	13.7	0.67	0.18	0.18	mg/Kg
CK66101	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	102	0.37	63	63	mg/Kg
CK66102	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1500	260	1000	1000	ug/Kg
CK66102	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1000	260	500	500	ug/Kg
CK66102	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	260	1000	1000	ug/Kg
CK66102	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	260	1000	1000	ug/Kg
CK66102	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1500	260	1000	1000	ug/Kg
CK66102	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	260	1000	1000	ug/Kg
CK66102	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	260	1000	1000	ug/Kg
CK66102	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	260	1000	1000	ug/Kg
CK66102	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	260	800	800	ug/Kg
CK66102	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	260	1000	1000	ug/Kg
CK66102	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1000	260	500	500	ug/Kg
CK66102	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.0	2.3	3.3	3.3	ug/Kg
CK66102	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	3.9	2.3	3.3	3.3	ug/Kg
CK66102	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	51.2	0.7	50	50	mg/kg
CK66102	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.38	0.03	0.18	0.18	mg/Kg
CK66102	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	340	0.37	63	63	mg/Kg
CK66102	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	196	0.7	109	109	mg/Kg

Wednesday, March 02, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCK66091 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66103	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	3700	260	1000	1000	ug/Kg
CK66103	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3700	260	1000	1000	ug/Kg
CK66103	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	260	1000	1000	ug/Kg
CK66103	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	520	190	330	330	ug/Kg
CK66103	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2400	260	500	500	ug/Kg
CK66103	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3700	260	1000	1000	ug/Kg
CK66103	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	260	500	500	ug/Kg
CK66103	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3700	260	1000	1000	ug/Kg
CK66103	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3700	260	1000	1000	ug/Kg
CK66103	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CK66103	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2800	260	800	800	ug/Kg
CK66103	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3800	260	1000	1000	ug/Kg
CK66103	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	520	190	330	330	ug/Kg
CK66103	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	16	2.2	3.3	3.3	ug/Kg
CK66103	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	7.2	2.2	3.3	3.3	ug/Kg
CK66103	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.33	0.03	0.81	0.81	mg/Kg
CK66103	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.33	0.03	0.18	0.18	mg/Kg
CK66103	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	79.6	0.38	63	63	mg/Kg
CK66104	\$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	120	50	50	50	ug/kg
CK66104	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	760	250	500	500	ug/Kg
CK66104	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	760	250	500	500	ug/Kg
CK66104	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	21	2.2	3.3	3.3	ug/Kg
CK66104	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	18	2.2	3.3	3.3	ug/Kg
CK66104	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.6	2.2	3.3	3.3	ug/Kg
CK66104	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.27	0.03	0.18	0.18	mg/Kg
CK66104	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	123	0.36	63	63	mg/Kg
CK66104	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	115	0.7	109	109	mg/Kg
CK66105	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	4100	260	1000	1000	ug/Kg
CK66105	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	840	190	560	560	ug/Kg
CK66105	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	4200	260	3900	3900	ug/Kg
CK66105	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	840	190	330	330	ug/Kg
CK66105	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2700	260	500	500	ug/Kg
CK66105	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	3800	260	1000	1000	ug/Kg
CK66105	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4100	260	1000	1000	ug/Kg
CK66105	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	4100	260	1000	1000	ug/Kg
CK66105	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3800	260	1000	1000	ug/Kg
CK66105	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	260	800	800	ug/Kg
CK66105	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4100	260	1000	1000	ug/Kg
CK66105	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4200	260	1000	1000	ug/Kg
CK66105	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	260	500	500	ug/Kg

Wednesday, March 02, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report GCK66091 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66105	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4100	260	1000	1000	ug/Kg
CK66105	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	840	190	330	330	ug/Kg
CK66105	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.8	2.2	3.3	3.3	ug/Kg
CK66105	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.7	2.2	3.3	3.3	ug/Kg
CK66105	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.87	0.03	0.81	0.81	mg/Kg
CK66105	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.87	0.03	0.18	0.18	mg/Kg
CK66105	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	156	0.33	63	63	mg/Kg
CK66105	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	130	0.7	109	109	mg/Kg
CK66106	\$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	80	50	50	50	ug/kg
CK66106	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	3400	260	1000	1000	ug/Kg
CK66106	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	470	190	330	330	ug/Kg
CK66106	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	260	1000	1000	ug/Kg
CK66106	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	3200	260	1000	1000	ug/Kg
CK66106	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2300	260	500	500	ug/Kg
CK66106	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	260	1000	1000	ug/Kg
CK66106	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	470	190	330	330	ug/Kg
CK66106	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	260	500	500	ug/Kg
CK66106	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CK66106	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	260	1000	1000	ug/Kg
CK66106	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3200	260	1000	1000	ug/Kg
CK66106	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CK66106	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	260	800	800	ug/Kg
CK66106	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.1	2.3	3.3	3.3	ug/Kg
CK66106	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.4	2.3	3.3	3.3	ug/Kg
CK66106	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	53.2	0.8	50	50	mg/kg
CK66106	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.70	0.03	0.18	0.18	mg/Kg
CK66106	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	362	0.39	63	63	mg/Kg
CK66106	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	243	0.8	109	109	mg/Kg
CK66107	\$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	130	50	50	50	ug/kg
CK66107	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	3400	260	1000	1000	ug/Kg
CK66107	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	690	190	560	560	ug/Kg
CK66107	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2500	260	500	500	ug/Kg
CK66107	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	690	190	330	330	ug/Kg
CK66107	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	3600	260	1000	1000	ug/Kg
CK66107	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	260	1000	1000	ug/Kg
CK66107	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	260	1000	1000	ug/Kg
CK66107	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3600	260	1000	1000	ug/Kg
CK66107	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	260	800	800	ug/Kg
CK66107	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CK66107	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	690	190	330	330	ug/Kg

Wednesday, March 02, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCK66091 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66107	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CK66107	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	260	500	500	ug/Kg
CK66107	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CK66107	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.2	2.3	3.3	3.3	ug/Kg
CK66107	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.2	2.3	3.3	3.3	ug/Kg
CK66107	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	64.4	0.7	50	50	mg/kg
CK66107	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.37	0.03	0.18	0.18	mg/Kg
CK66107	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	235	0.36	63	63	mg/Kg
CK66107	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	173	0.7	109	109	mg/Kg
CK66108	\$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	91	50	50	50	ug/kg
CK66108	\$8260_TCL_SM	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	1200	380	60	60	ug/kg
CK66108	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	4100	260	1000	1000	ug/Kg
CK66108	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	4300	260	3900	3900	ug/Kg
CK66108	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	4400	260	1000	1000	ug/Kg
CK66108	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4100	260	1000	1000	ug/Kg
CK66108	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2400	260	500	500	ug/Kg
CK66108	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	260	1000	1000	ug/Kg
CK66108	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	560	180	330	330	ug/Kg
CK66108	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	260	500	500	ug/Kg
CK66108	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	560	180	330	330	ug/Kg
CK66108	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4300	260	1000	1000	ug/Kg
CK66108	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CK66108	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4100	260	1000	1000	ug/Kg
CK66108	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4400	260	1000	1000	ug/Kg
CK66108	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	260	800	800	ug/Kg
CK66108	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	19	2.2	3.3	3.3	ug/Kg
CK66108	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	15	2.2	3.3	3.3	ug/Kg
CK66108	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.6	2.2	3.3	3.3	ug/Kg
CK66108	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	53.1	0.8	50	50	mg/kg
CK66108	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.54	0.03	0.18	0.18	mg/Kg
CK66108	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	532	0.40	400	400	mg/Kg
CK66108	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	532	0.40	63	63	mg/Kg
CK66108	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	221	0.8	109	109	mg/Kg
CK66109	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Commercial	9600	2700	5600	5600	ug/Kg
CK66109	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	7500	270	1000	1000	ug/Kg
CK66109	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	1100	190	560	560	ug/Kg
CK66109	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	7600	270	5600	5600	ug/Kg
CK66109	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4600	270	3900	3900	ug/Kg
CK66109	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4400	270	500	500	ug/Kg
CK66109	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	190	330	330	ug/Kg

Wednesday, March 02, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCK66091 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66109	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	9300	2700	3900	3900	ug/Kg
CK66109	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	7600	270	1000	1000	ug/Kg
CK66109	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	9600	2700	1000	1000	ug/Kg
CK66109	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	7500	270	1000	1000	ug/Kg
CK66109	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	190	330	330	ug/Kg
CK66109	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7600	270	1000	1000	ug/Kg
CK66109	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4400	270	500	500	ug/Kg
CK66109	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	9600	2700	1000	1000	ug/Kg
CK66109	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	9300	2700	1000	1000	ug/Kg
CK66109	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7500	270	1000	1000	ug/Kg
CK66109	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4600	270	800	800	ug/Kg
CK66109	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	10	2.3	3.3	3.3	ug/Kg
CK66109	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.4	2.3	3.3	3.3	ug/Kg
CK66109	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.9	2.3	3.3	3.3	ug/Kg
CK66109	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	77.9	0.7	50	50	mg/kg
CK66109	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.94	0.03	0.81	0.81	mg/Kg
CK66109	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.94	0.03	0.18	0.18	mg/Kg
CK66109	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	336	0.35	63	63	mg/Kg
CK66109	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	195	0.7	109	109	mg/Kg
CK66110	\$8260_TCL_SM	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	61	60	60	60	ug/kg
CK66110	\$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	160	50	50	50	ug/kg
CK66110	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1400	270	1000	1000	ug/Kg
CK66110	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	270	1000	1000	ug/Kg
CK66110	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1000	270	500	500	ug/Kg
CK66110	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	270	1000	1000	ug/Kg
CK66110	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	270	1000	1000	ug/Kg
CK66110	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	270	1000	1000	ug/Kg
CK66110	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1000	270	500	500	ug/Kg
CK66110	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	270	800	800	ug/Kg
CK66110	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	1000	1000	ug/Kg
CK66110	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	1000	1000	ug/Kg
CK66110	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	1000	1000	ug/Kg
CK66110	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	17	2.3	3.3	3.3	ug/Kg
CK66110	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	12	2.3	3.3	3.3	ug/Kg
CK66110	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	12	2.3	3.3	3.3	ug/Kg
CK66110	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.39	0.03	0.18	0.18	mg/Kg
CK66110	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	129	0.39	63	63	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 exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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



Analysis Comments

March 02, 2022

SDG I.D.: GCK66091

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

GRO Narration

PIDFID 02/15/22-1: CK66106, CK66107, CK66108, CK66109, CK66110

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples:

Preceding CC 0215_04.D-RPTGRO - None.

Succeeding CC - None.

Herbicide Narration

AU-ECD12 02/15/22-1: CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66109, CK66110

Preceding CC 215B064 - None.

Succeeding CC 215B076 - 2,4-DB (12) 17%H (15%)

AU-ECD2 02/15/22-1: CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106

Preceding CC 215B030 - None.

Succeeding CC 215B042 - 2,4,5-TP (10) 17%H (15%)

Samples: CK66107, CK66108, CK66109, CK66110

Preceding CC 215B042 - 2,4,5-TP (10) 17%H (15%)

Succeeding CC 215B048 - None.

Mercury Narration

MERLIN 02/14/22 17:42: CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103

The following Continuing Calibration Verification (CCV) compounds did not meet criteria:

CCV 02/14/22 18:42: Mercury 53% (80-120) CK66103

PCB Narration

AU-ECD8 02/14/22-1: CK66100

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66100

Preceding CC 214B003 - None.

Succeeding CC 214B030 - PCB 1260 17%H (%)

PEST Narration

AU-ECD35 02/14/22-2: CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103

Preceding CC 214B044 - Methoxychlor 21%L (20%)

Succeeding CC 214B055 - Methoxychlor 21%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD35 02/17/22-1: CK66100, CK66102, CK66107, CK66108, CK66109



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Analysis Comments

March 02, 2022

SDG I.D.: GCK66091

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66100, CK66102, CK66107, CK66108, CK66109

Preceding CC 217A004 - None.

Succeeding CC 217A025 - g-BHC 23%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 02/14/22-1: CK66091, CK66092, CK66093

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66091, CK66092, CK66093

Preceding CC 214B033 - None.

Succeeding CC 214B047 - Methoxychlor 21%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 02/15/22-1: CK66104, CK66105, CK66106, CK66107

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66104, CK66105, CK66106, CK66107

Preceding CC 215A047 - None.

Succeeding CC 215A062 - 4,4'-DDT 30%L (20%), Methoxychlor 30%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CK66104, CK66105, CK66106, CK66107

Preceding CC 215B047 - Methoxychlor 21%L (20%)

Succeeding CC 215B062 - Dieldrin 21%H (20%), Methoxychlor 34%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 02/21/22-1: CK66101

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66101

Preceding CC 221B004 - % DCBP 21%H (20%), Endrin aldehyde 22%H (20%)

Succeeding CC 221B028 - None.

AU-ECD7 02/14/22-1: CK66094, CK66095

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66094

Preceding CC 214B009 - b-BHC 25%L (20%), Endrin aldehyde 30%L (20%), Endrin Ketone 25%L (20%), Methoxychlor 22%L (20%)

Succeeding CC 214B022 - % DCBP 23%L (20%), Endosulfan sulfate 23%L (20%), Endrin aldehyde 24%L (20%), Endrin Ketone 24%L (20%), Methoxychlor 22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CK66095

Preceding CC 214B022 - % DCBP 23%L (20%), Endosulfan sulfate 23%L (20%), Endrin aldehyde 24%L (20%), Endrin Ketone 24%L (20%), Methoxychlor 22%L (20%)

Succeeding CC 214B035 - Endrin aldehyde 22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 02/15/22-1: CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099



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Analysis Comments

March 02, 2022

SDG I.D.: GCK66091

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66091, CK66092, CK66093, CK66094, CK66095

Preceding CC 215B020 - b-BHC 23%L (20%), Endrin aldehyde 22%L (20%)

Succeeding CC 215B033 - b-BHC 25%L (20%), Endrin aldehyde 23%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CK66096, CK66097, CK66098, CK66099

Preceding CC 215B033 - b-BHC 25%L (20%), Endrin aldehyde 23%L (20%)

Succeeding CC 215B041 - b-BHC 24%L (20%), Endrin aldehyde 22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 02/16/22-1: CK66108, CK66109, CK66110

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66108, CK66109, CK66110

Preceding CC 216B004 - 4,4'-DDD 22%H (20%), Endrin aldehyde 24%L (20%)

Succeeding CC 216B020 - Endrin aldehyde 21%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 02/17/22-1: CK66103, CK66104, CK66105, CK66106, CK66110

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66103, CK66104, CK66105, CK66106, CK66110

Preceding CC 217B004 - b-BHC 27%L (20%)

Succeeding CC 217B024 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

SVOA Narration

CHEM07 02/14/22-1: CK66106, CK66107

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.047 (0.05), 2-Nitrophenol 0.064 (0.1), Hexachlorobenzene 0.069 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: % 2,4,6-Tribromophenol 0.047 (0.05)

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.069 (0.1), Hexachlorobenzene 0.071 (0.1)

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

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

CHEM22 02/13/22-1: CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105



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Analysis Comments

March 02, 2022

SDG I.D.: GCK66091

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.075 (0.1), Hexachlorobenzene 0.092 (0.1)

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

The following Continuing Calibration compounds did not meet % deviation criteria: N-Nitrosodimethylamine 40%L (30%)

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

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

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

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

CHEM28 02/16/22-1: CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66106, CK66107, CK66108, CK66109, CK66110

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.079 (0.1)

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

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.078 (0.1)

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

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

CHEM36 02/14/22-1: CK66108, CK66109, CK66110

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.085 (0.1)

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

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.092 (0.1), Hexachlorobenzene 0.077 (0.1)

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

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

VOA Narration

CHEM14 02/11/22-2: CK66091, CK66092, CK66093, CK66094, CK66095, CK66096, CK66097, CK66098, CK66099, CK66100, CK66101, CK66102, CK66103, CK66104, CK66105, CK66107

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 26% (20%), Acetone 29% (20%), Methylene chloride 28% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.095 (0.1), Bromoform 0.086 (0.1)

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

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

CHEM14 02/13/22-1: CK66110



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



Analysis Comments

March 02, 2022

SDG I.D.: GCK66091

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 26% (20%), Acetone 29% (20%), Methylene chloride 28% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.095 (0.1), Bromoform 0.086 (0.1)

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

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

CHEM14 02/14/22-1: CK66109

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 26% (20%), Acetone 29% (20%), Methylene chloride 28% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.095 (0.1), Bromoform 0.086 (0.1)

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

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

CHEM14 02/15/22-1: CK66106, CK66108

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 26% (20%), Acetone 29% (20%), Methylene chloride 28% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.095 (0.1), Bromoform 0.086 (0.1)

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

The following Continuing Calibration compounds did not meet % deviation criteria: Methylcyclohexane 33%L (30%), Trichlorotrifluoroethane 31%L (30%)

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

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

CHEM31 02/14/22-1: CK66356, CK66357

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 23% (20%), Acetone 35% (20%), Chloroethane 24% (20%), Methylene chloride 39% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Tetrachloroethene 0.170 (0.2)

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

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



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NY Temperature Narration

March 02, 2022

SDG I.D.: GCK66091

The samples in this delivery group were received at 1.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



NY/NJ/PA CHAIN OF CUSTODY RECORD

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

Coolant: Yes No
 ICE No
 Temp: _____ °C Pg _____ of _____

Contact Options:
 Phone: _____
 Fax: pendyenveng@phoenixline.net
 Email: empendergast@aol.com

Customer: AES Project: EAST SIDE COASTAL RESILIENCY Project P.O.: 0897
 Address: 42 West Avenue Report to: AES
Patchogue, NY 11772 Invoice to: AES
 QUOTE #: AE090921BA

This section MUST be completed with Bottle Quantities.

Sampler's Signature	Client Sample - Information - Identification	Date Sampled	Time Sampled	Customer Sample Identification	Sample Matrix	Analysis Request	
						TAL/TCLP	GR0
<u>[Signature]</u>	<u>2.10.22</u>	<u>2.10.22</u>	<u>7:35</u>	<u>S</u>	<u>S</u>	<u>X</u>	<u>X</u>
		<u>2.10.22</u>	<u>7:45</u>	<u>S</u>	<u>S</u>	<u>X</u>	<u>X</u>
			<u>7:55</u>			<u>X</u>	<u>X</u>
			<u>8:05</u>			<u>X</u>	<u>X</u>
			<u>8:10</u>			<u>X</u>	<u>X</u>
			<u>8:25</u>			<u>X</u>	<u>X</u>
			<u>8:30</u>			<u>X</u>	<u>X</u>
			<u>8:40</u>			<u>X</u>	<u>X</u>
			<u>8:50</u>			<u>X</u>	<u>X</u>
			<u>9:20</u>			<u>X</u>	<u>X</u>
			<u>9:55</u>			<u>X</u>	<u>X</u>

Relinquished by: [Signature] Date: 2.11.22 Time: 9:44
 Accepted by: [Signature] Date: 2.11.22 Time: 11:53

Comments, Special Requirements or Regulations:

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

PHOENIX USE ONLY

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

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

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

Res. Criteria TOGS GW PA
 Non-Res. Criteria CP-51 SOIL Clean Fill Limits
 Impact to GW Soil 375SCO PA-GW
 Cleanup Criteria Unrestricted Soil Reg Fill Limits
 Impact to GW soil screen 375SCO PA Soil Restricted
 Criteria Residential Soil PA Soil non-restricted
 GW Criteria Residential Restricted Soil
 GW Criteria 375SCO
 GW Criteria Commercial Soil
 GW Criteria Industrial Soil
 GW Criteria Subpart 5 DW

State Samples Collected? NY

Coolant: Yes No
 Coolant: IPK ICE
 Temp: °C Pg of

Contact Options:
 Phone:
 Fax:
 Email:

NY/NJ/PA CHAIN OF CUSTODY RECORD

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



Customer: AES Project: EAST SIDE COASTAL RESILIENCY
 Address: 42 West Avenue Report to: AES
 Patchogue, NY 11772 Invoice to: AES
 QUOTE #: AE090921BA

Project P.O.: 0897
 This section MUST be completed with Bottle Quantities.

Sampler's Signature: [Signature] Date: 2.10.22
 Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
060091	BH13	S	2.10.22	7:35	X X X X X X X X X X X X
060092	BH14	S	2.10.22	7:45	X X X X X X X X X X X X
060093	BH15		7:55		X X X X X X X X X X X X
060094	BH16		8:05		X X X X X X X X X X X X
060095	BH17		8:10		X X X X X X X X X X X X
060096	BH18		8:25		X X X X X X X X X X X X
060097	BH19		8:30		X X X X X X X X X X X X
060098	BH20		8:40		X X X X X X X X X X X X
060099	BH21		8:50		X X X X X X X X X X X X
060100	BH22		9:20		X X X X X X X X X X X X
060101	BH23		9:55		X X X X X X X X X X X X

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 2.11.22 9:44
 Time: 2:11 11:53

Turnaround:
 1 Day*
 2 Days*
 3 Days*
 5 Days
 10 Days
 Other

Data Format:
 Phoenix Std Report
 Excel
 PDF
 GIS/Key

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

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

NY:
 TOGS GW
 CP-51 SOIL
 375SSCO
 Unrestricted Soil
 375SSCO
 Residential Soil
 Residential Restricted Soil
 375SSCO
 Commercial Soil
 375SSCO
 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

Cooler: Yes No
 Coolant: ICE No
 Temp: | °C | Pg of

NY/NJ/PA CHAIN OF CUSTODY RECORD



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

Customer: **AES** Project: **EAST SIDE COASTAL RESILIENCY** Project P.O.: **0897**
 Address: **42 WEST AVENUE** Report to: **AES**
Patchogue, NY 11772 Invoice to: **AES**
 QUOTE #: **AE090921 BA**

Contact Options:
 Phone:
 Fax: **pendyenvens@optonline.net**
 Email: **empendergat@aol.com**

This section **MUST** be completed with **Bottle Quantities.**

Client Sample - Information - Identification
 Sampler's Signature: *[Signature]* Date: **2.10.22**

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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
WV102	BH24	S	2.8.22	10:10	X X X X X
WV103	BH25	S	2.10.22	10:25	X X X X X
WV104	BH26			10:40	X X X X X
WV105	BH27			11:00	X X X X X
WV106	BH28			12:05	X X X X X
WV107	BH29			12:30	X X X X X
WV108	BH30			1:15	X X X X X
WV109	BH31			1:25	X X X X X
WV110	BH32			1:35	X X X X X
WV350	TBL1				X X X X X
WV357	TBL2				X X X X X

Requisitioned by: *[Signature]* Accepted by: *[Signature]* Date: **2.11.22** Time: **9:44**
 Date: **2.11.22** Time: **11:53**

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

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

NY
 TOGS GW
 CP-51 SOIL
 375SCO
 Unrestricted Soil
 375SCO
 Residential Soil
 375SCO
 Residential Restricted Soil
 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

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

State Samples Collected? **NY**

Comments, Special Requirements or Regulations:
 Phoenix Std Report
 Excel
 PDF
 GIS/Key
 EquiS
 NJ Hazsite EDD
 NY EZ EDD (ASP)
 Other



Wednesday, February 23, 2022

Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Project ID: EAST SIDE COASTAL RESILIENCY
SDG ID: GCK66962
Sample ID#s: CK66962 - CK66977, CK67069 - CK67070

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

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

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

Sincerely yours,

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

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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



SDG Comments

February 23, 2022

SDG I.D.: GCK66962

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

CK66962 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66963 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66964 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66965 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66966 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66967 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66968 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66969 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66970 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66971 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66972 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66973 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66974 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66975 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66976 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66977 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.



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Sample Id Cross Reference

February 23, 2022

SDG I.D.: GCK66962

Project ID: EAST SIDE COASTAL RESILIENCY

Client Id	Lab Id	Matrix
BH33	CK66962	SOIL
BH34	CK66963	SOIL
BH35	CK66964	SOIL
BH36	CK66965	SOIL
BH37	CK66966	SOIL
BH38	CK66967	SOIL
BH39	CK66968	SOIL
BH40	CK66969	SOIL
BH42	CK66970	SOIL
BH43	CK66971	SOIL
BH44	CK66972	SOIL
BH45	CK66973	SOIL
BH46	CK66974	SOIL
BH47	CK66975	SOIL
BH48	CK66976	SOIL
BH49	CK66977	SOIL
TB LL	CK67069	SOIL
TB HL	CK67070	SOIL



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

7:50
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66962

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH33

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	3520	67	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	3.59	0.89	mg/Kg	1	02/17/22	TH	SW6010D
Barium	25.4	0.45	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	< 0.36	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	18700	67	mg/Kg	10	02/17/22	TH	SW6010D
Cadmium	< 0.45	0.45	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	2.66	0.45	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	7.43	0.45	mg/Kg	1	02/17/22	TH	SW6010D
Copper	11.2	0.9	mg/kg	1	02/17/22	TH	SW6010D
Iron	7080	6.7	mg/Kg	1	02/17/22	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	506	6.7	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	3590	6.7	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	136	0.45	mg/Kg	1	02/17/22	TH	SW6010D
Sodium	106	6.7	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	12.6	0.45	mg/Kg	1	02/17/22	TH	SW6010D
Lead	21.3	0.45	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 4.5	4.5	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.78	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.40	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 4.0	4.0	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	13.0	0.45	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	42.5	0.9	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	79		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.68	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.49	0.49	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	62	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	62	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	62	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	59		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	78		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	U/F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 7.6	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	88		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	310	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	160	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	310	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	3100	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	160	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	160	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	310	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	310	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	84		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	95		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	84	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	84	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	84	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	84	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	84	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	84	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	84	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	84	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	84	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	73		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	73		%	2	02/16/22	AW	30 - 150 %
% TCMX	61		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.5	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDE	ND	2.5	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDT	7.6	2.5	ug/Kg	2	02/17/22	AW	SW8081B
a-BHC	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
a-Chlordane	ND	4.2	ug/Kg	2	02/17/22	AW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	02/17/22	AW	SW8081B
b-BHC	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
Chlordane	ND	42	ug/Kg	2	02/17/22	AW	SW8081B
d-BHC	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
Endrin	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	02/17/22	AW	SW8081B
g-Chlordane	ND	4.2	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	8.4	ug/Kg	2	02/17/22	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	02/17/22	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	54		%	2	02/17/22	AW	30 - 150 %
% DCBP (Confirmation)	67		%	2	02/17/22	AW	30 - 150 %
% TCMX	45		%	2	02/17/22	AW	30 - 150 %
% TCMX (Confirmation)	45		%	2	02/17/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	73		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	75		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	71		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	70		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	71		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	73		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	310	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	67		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	77		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 31	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 31	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 38	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 13	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 5.0	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 31	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	6.3	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 6.3	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	102		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 94	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	680	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	680	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	420	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	510	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	680	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	420	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	680	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1200	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	360	300	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	320	300	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	420	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	420	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	300	300	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	210	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	840	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	630	300	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	420	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	210	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	420	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	420	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	300	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	580	300	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	93		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	64		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	71		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	82		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	114		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	85		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	76		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	91		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	68		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	97		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

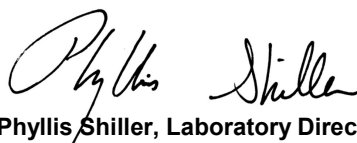
This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Semi-Volatile Comment:

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

8:00
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66963

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH34

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	2340	49	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	5.77	0.65	mg/Kg	1	02/17/22	TH	SW6010D
Barium	29.3	0.32	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	< 0.26	0.26	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	6050	4.9	mg/Kg	1	02/17/22	TH	SW6010D
Cadmium	< 0.32	0.32	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	3.35	0.32	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	9.92	0.32	mg/Kg	1	02/17/22	TH	SW6010D
Copper	14.2	0.6	mg/kg	1	02/17/22	TH	SW6010D
Iron	7090	4.9	mg/Kg	1	02/17/22	TH	SW6010D
Mercury	0.45	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	537	4.9	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	2000	4.9	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	133	3.2	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	73.9	4.9	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	10.6	0.32	mg/Kg	1	02/17/22	TH	SW6010D
Lead	39.5	0.32	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.2	3.2	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.41	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 2.9	2.9	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	16.4	0.32	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	62.3	0.6	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	93		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	12.1	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.60	0.60	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	53	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	53	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	53	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	86		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	109		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	U/F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 5.8	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	98		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	130	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	130	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	260	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2600	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	130	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	130	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	260	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	260	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	102		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	98		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	70	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	70	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	70	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	70	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	70	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	70	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	70	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	70	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	70	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	67		%	2	02/16/22	AW	30 - 150 %
% TCMX	69		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	66		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.1	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	4.1	2.1	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.1	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.5	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.5	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	35	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.5	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	76		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	52		%	2	02/16/22	AW	30 - 150 %
% TCMX	65		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	54		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	78		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	79		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	69		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	67		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	68		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	69		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	270	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	80		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	103		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
2-Hexanone	ND	L 27	ug/kg	1	02/17/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 27	ug/kg	1	02/17/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/17/22	JLI	SW8260C
Benzene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Bromochloromethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Bromoform	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Bromomethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Chlorobenzene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Chloroethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Chloroform	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Chloromethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Cyclohexane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Ethylbenzene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
m&p-Xylene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 32	ug/kg	1	02/17/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/17/22	JLI	SW8260C
Methylacetate	ND	L 4.3	ug/kg	1	02/17/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Methylene chloride	ND	L 27	ug/kg	1	02/17/22	JLI	SW8260C
o-Xylene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Styrene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Toluene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Total Xylenes	ND	5.4	ug/kg	1	02/17/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Trichloroethene	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
Vinyl chloride	ND	L 5.4	ug/kg	1	02/17/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	92		%	1	02/17/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/17/22	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	02/17/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/17/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 81	ug/kg	1	02/17/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/17/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	560	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	280	240	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	560	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	420	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	560	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	630	240	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	580	240	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	850	240	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	750	240	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	680	240	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	400	240	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	640	240	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	350	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	890	240	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	360	240	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	700	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	2900	240	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	590	240	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	440	240	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	830	240	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	350	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	2200	240	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	240	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	2500	240	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	41		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	58		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	30		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	55		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	67		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	122		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	91		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	76		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	96		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	68		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	97		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Volatile Comment:

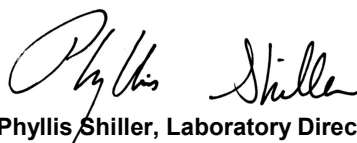
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

8:15
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66964

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH35

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	5370	53	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	5.69	0.70	mg/Kg	1	02/17/22	TH	SW6010D
Barium	91.7	0.35	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.32	0.28	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	104000	53	mg/Kg	10	02/17/22	TH	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	5.45	0.35	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	12.7	0.35	mg/Kg	1	02/17/22	TH	SW6010D
Copper	32.3	0.7	mg/kg	1	02/17/22	TH	SW6010D
Iron	12400	53	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.36	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1460	5.3	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	30900	53	mg/Kg	10	02/17/22	TH	SW6010D
Manganese	351	3.5	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	386	5.3	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	17.6	0.35	mg/Kg	1	02/17/22	TH	SW6010D
Lead	95.0	0.35	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.74	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.2	3.2	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	27.6	0.35	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	91.7	0.7	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	90		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.63	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	124		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	98		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	U/F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.1	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	103		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	99		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	93		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1221	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1232	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1242	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1248	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1254	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1260	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1262	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1268	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	69		%	2	02/17/22	SC	30 - 150 %
% DCBP (Confirmation)	58		%	2	02/17/22	SC	30 - 150 %
% TCMX	68		%	2	02/17/22	SC	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/17/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	10	2.2	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDE	8.6	2.2	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDT	5.6	2.2	ug/Kg	2	02/17/22	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
a-Chlordane	5.1	3.6	ug/Kg	2	02/17/22	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	02/17/22	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	02/17/22	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/17/22	AW	SW8081B
g-Chlordane	ND	3.6	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	02/17/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	02/17/22	AW	30 - 150 %
% DCBP (Confirmation)	54		%	2	02/17/22	AW	30 - 150 %
% TCMX	61		%	2	02/17/22	AW	30 - 150 %
% TCMX (Confirmation)	62		%	2	02/17/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	72		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	74		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	78		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	74		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	71		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	71		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	550	mg/Kg	10	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	91		%	10	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	98		%	10	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 34	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.5	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	102		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 84	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	430	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	300	250	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	750	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	810	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	700	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	490	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	640	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	790	250	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	720	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	1700	250	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	510	250	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	1000	250	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	1700	250	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	63		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	49		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	48		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	49		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	51		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	54		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	122		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	91		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	77		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	98		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	72		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	101		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

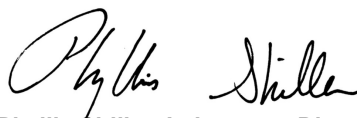
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

8:20
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66965

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH36

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	8480	61	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	6.71	0.81	mg/Kg	1	02/17/22	TH	SW6010D
Barium	70.6	0.40	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	< 0.32	0.32	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	2040	6.1	mg/Kg	1	02/17/22	TH	SW6010D
Cadmium	0.69	0.40	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	4.31	0.40	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	18.7	0.40	mg/Kg	1	02/17/22	TH	SW6010D
Copper	15.4	0.8	mg/kg	1	02/17/22	TH	SW6010D
Iron	18900	61	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.44	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	482	6.1	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	1370	6.1	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	168	4.0	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	209	6.1	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	8.76	0.40	mg/Kg	1	02/17/22	TH	SW6010D
Lead	4260	4.0	mg/Kg	10	02/17/22	TH	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.32	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.6	3.6	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	21.9	0.40	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	91.4	0.8	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	87		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.13	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.48	0.48	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	77		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	86		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/M	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/M	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	U/F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.5	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	86		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/17/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/17/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/17/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	96		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	107		%	10	02/17/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	59		%	2	02/16/22	AW	30 - 150 %
% TCMX	53		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	52		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	20	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	9.0	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	16	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	83	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	11	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	48		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	50		%	2	02/16/22	AW	30 - 150 %
% TCMX	49		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	50		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	73		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	78		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	77		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	75		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	75		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	76		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	93		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	102		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 34	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.5	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	105		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 84	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	350	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	290	260	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	96		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	62		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	55		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	62		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	77		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	104		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	78		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	69		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	84		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	64		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	88		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

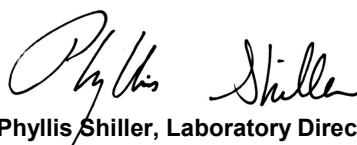
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

8:30
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66966

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH37

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	8440	59	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	12.6	0.78	mg/Kg	1	02/17/22	TH	SW6010D
Barium	33.5	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	< 0.31	0.31	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	9160	5.9	mg/Kg	1	02/17/22	TH	SW6010D
Cadmium	0.42	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	4.44	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	14.8	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Copper	17.8	0.8	mg/kg	1	02/17/22	TH	SW6010D
Iron	11500	59	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.08	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	617	5.9	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	3900	5.9	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	141	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Sodium	193	5.9	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	8.49	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Lead	50.4	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.60	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.5	3.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	24.0	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	59.7	0.8	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	89		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.30	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	56	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	56	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	56	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	70		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	98		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/M	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/M	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	U/F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.3	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	88		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-D	ND	270	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/17/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/17/22	KCA	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/17/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	82		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	90		%	10	02/17/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1221	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1232	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1242	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1248	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1254	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1260	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1262	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
PCB-1268	ND	73	ug/Kg	2	02/17/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	74		%	2	02/17/22	SC	30 - 150 %
% DCBP (Confirmation)	66		%	2	02/17/22	SC	30 - 150 %
% TCMX	68		%	2	02/17/22	SC	30 - 150 %
% TCMX (Confirmation)	64		%	2	02/17/22	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	23	2.2	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDE	38	2.2	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDT	13	2.2	ug/Kg	2	02/17/22	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
a-Chlordane	120	18	ug/Kg	10	02/17/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/17/22	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Chlordane	620	180	ug/Kg	10	02/17/22	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Dieldrin	16	3.7	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/17/22	AW	SW8081B
g-Chlordane	72	18	ug/Kg	10	02/17/22	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor epoxide	18	7.3	ug/Kg	2	02/17/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/17/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	54		%	2	02/17/22	AW	30 - 150 %
% DCBP (Confirmation)	52		%	2	02/17/22	AW	30 - 150 %
% TCMX	54		%	2	02/17/22	AW	30 - 150 %
% TCMX (Confirmation)	53		%	2	02/17/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	76		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	80		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	71		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	74		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	68		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	71		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	98		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	114		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 34	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.5	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.7	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	102		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 85	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	280	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	270	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	460	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	410	260	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	100		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	63		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	72		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	81		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	120		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	88		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	75		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	95		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	70		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	98		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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

Comments:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

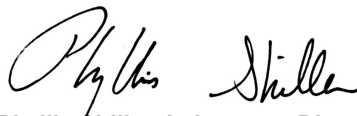
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

8:50
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66967

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH38

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.45	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	7500	55	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	21.4	0.73	mg/Kg	1	02/17/22	TH	SW6010D
Barium	374	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.61	0.29	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	14000	55	mg/Kg	10	02/17/22	TH	SW6010D
Cadmium	0.60	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	6.78	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	21.1	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Copper	84.9	0.7	mg/kg	1	02/17/22	TH	SW6010D
Iron	22300	55	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	2.61	0.14	mg/Kg	10	02/16/22	AP	SW7471B
Potassium	1390	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	2450	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	241	3.6	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	519	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	16.2	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Lead	2500	3.6	mg/Kg	10	02/17/22	TH	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	1.38	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.12	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	26.7	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	249	0.7	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	86		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.49	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.53	0.53	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	12	mg/kg	1	02/17/22	AW	NJEPH 10-08 R3
C9-C28	23	12	mg/kg	1	02/17/22	AW	NJEPH 10-08 R3
Total EPH	23	12	mg/kg	1	02/17/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	138		%	1	02/17/22	AW	40 - 140 %
% Terphenyl (surr)	138		%	1	02/17/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/M	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/M	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/16/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	U/F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.6	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	93		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/17/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/17/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/17/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	71		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	70		%	10	02/17/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	71		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	69		%	2	02/16/22	AW	30 - 150 %
% TCMX	60		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	61		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	43		%	2	02/16/22	AW	30 - 150 %
% TCMX	53		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	55		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	72		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	73		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	58		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	60		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	48		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	49		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	56	mg/Kg	1	02/16/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	100		%	1	02/16/22	KCA	50 - 150 %
% Terphenyl (surr)	101		%	1	02/16/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 35	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.7	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.9	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	103		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1,4-dioxane

1,4-dioxane	ND	L 88	ug/kg	1	02/15/22	JLI	SW8260C
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TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	100		%	10	02/17/22	HM	70 - 130 %

Volatile Library Search Completed 02/16/22 JLI

Semivolatiles

1,1-Biphenyl	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	550	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	570	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	540	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	270	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	500	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	570	270	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	770	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	960	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	350	270	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	590	270	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	830	270	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	92		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	80		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	65		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	71		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	73		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	82		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	116		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	89		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	75		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	97		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	70		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	96		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/23/22	WB	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

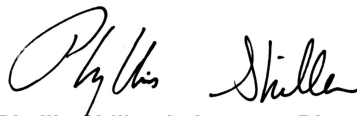
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

8:56
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66968

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH39

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	6550	57	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	4.67	0.76	mg/Kg	1	02/17/22	TH	SW6010D
Barium	65.5	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	< 0.30	0.30	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	15900	57	mg/Kg	10	02/17/22	TH	SW6010D
Cadmium	< 0.38	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	4.72	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	16.4	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Copper	29.4	0.8	mg/kg	1	02/17/22	TH	SW6010D
Iron	11100	57	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.54	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1450	5.7	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	8010	57	mg/Kg	10	02/17/22	TH	SW6010D
Manganese	178	3.8	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	1030	5.7	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	11.0	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Lead	355	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.52	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.4	3.4	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	20.1	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	295	0.8	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	87		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.56	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.57	0.57	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	78		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	86		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/16/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	U/F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.4	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	96		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-D	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/17/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	72		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	78		%	10	02/17/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	62		%	2	02/16/22	AW	30 - 150 %
% TCMX	63		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	63		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	3.0	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	5.6	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	42		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	48		%	2	02/16/22	AW	30 - 150 %
% TCMX	47		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	51		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	75		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	79		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	78		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	77		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	74		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	75		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	570	mg/Kg	10	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	90		%	10	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	109		%	10	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 35	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.6	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.8	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	103		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	96		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1,4-dioxane

1,4-dioxane	ND	L 87	ug/kg	1	02/15/22	JLI	SW8260C
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TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/17/22	HM	70 - 130 %

Volatile Library Search Completed 02/16/22 JLI

Semivolatiles

1,1-Biphenyl	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	750	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1800	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1800	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	840	440	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	520	440	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	960	440	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	440	440	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	880	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	1200	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	610	440	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	330	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	970	440	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	310	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	330	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	570	440	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	59		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	44		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	47		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	48		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	48		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	51		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	127		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	93		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	81		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	104		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	76		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	102		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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

Comments:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

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

Semi-Volatile Comment:

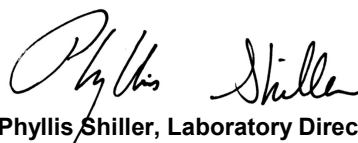
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

9:10
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66969

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH40

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	5430	49	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	4.13	0.65	mg/Kg	1	02/17/22	TH	SW6010D
Barium	416	0.33	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.31	0.26	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	29000	49	mg/Kg	10	02/17/22	TH	SW6010D
Cadmium	0.40	0.33	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	4.99	0.33	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	16.2	0.33	mg/Kg	1	02/17/22	TH	SW6010D
Copper	42.2	0.7	mg/kg	1	02/17/22	TH	SW6010D
Iron	12400	49	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.44	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1540	4.9	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	12800	49	mg/Kg	10	02/17/22	TH	SW6010D
Manganese	215	3.3	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	357	4.9	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	14.0	0.33	mg/Kg	1	02/17/22	TH	SW6010D
Lead	385	0.33	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.84	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.69	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 2.9	2.9	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	20.4	0.33	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	223	0.7	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	91		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.98	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.50	0.50	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	81		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	103		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/16/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	U/F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.0	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	92		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	130	ug/Kg	10	02/17/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	130	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-D	ND	270	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/17/22	KCA	SW8151A
Dalapon	ND	130	ug/Kg	10	02/17/22	KCA	SW8151A
Dicamba	ND	130	ug/Kg	10	02/17/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/17/22	KCA	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/17/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	75		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	85		%	10	02/17/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	55		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	59		%	2	02/16/22	AW	30 - 150 %
% TCMX	59		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	5.2	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	49		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	55		%	2	02/16/22	AW	30 - 150 %
% TCMX	53		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	72		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	72		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	76		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	74		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	77		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	76		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	270	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	136		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	Interference		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 33	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	L 4.4	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 83	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	600	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	480	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	1500	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	1700	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	1400	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	1200	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	1300	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	1600	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	290	180	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	730	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	3500	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1300	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	1500	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	3500	260	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	93		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	69		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	78		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	80		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	97		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	128		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	93		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	78		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	101		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	73		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	104		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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

Comments:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

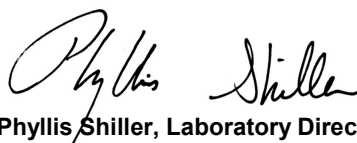
This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Semi-Volatile Comment:

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

10:00
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66970

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH42

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.71	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	6510	58	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	8.45	0.77	mg/Kg	1	02/17/22	TH	SW6010D
Barium	218	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.44	0.31	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	22400	58	mg/Kg	10	02/17/22	TH	SW6010D
Cadmium	0.76	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	6.74	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	24.8	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Copper	67.2	0.8	mg/kg	1	02/17/22	TH	SW6010D
Iron	19600	58	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.35	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1960	5.8	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	9100	58	mg/Kg	10	02/17/22	TH	SW6010D
Manganese	265	3.9	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	300	5.8	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	22.5	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Lead	296	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.41	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.5	3.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	25.1	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	213	0.8	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	85		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.42	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	59	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	59	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	59	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	79		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	91		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/16/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/21/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.8	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	97		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-D	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/17/22	KCA	SW8151A
Dalapon	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A
Dicamba	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	71		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	81		%	10	02/17/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	65		%	2	02/16/22	AW	30 - 150 %
% TCMX	57		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	71		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDE	ND	3.3	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDT	ND	3.0	ug/Kg	2	02/17/22	AW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	02/17/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/17/22	AW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	02/17/22	AW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	02/17/22	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	02/17/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/17/22	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	47		%	2	02/17/22	AW	30 - 150 %
% DCBP (Confirmation)	53		%	2	02/17/22	AW	30 - 150 %
% TCMX	43		%	2	02/17/22	AW	30 - 150 %
% TCMX (Confirmation)	51		%	2	02/17/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	78		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	79		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	70		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	74		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	70		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	72		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	96		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	137		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 35	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	L 4.6	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.8	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	92		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 86	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	310	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	500	270	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	1400	270	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	1200	270	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	3100	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	3300	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	2600	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	1800	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	2200	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	3100	270	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	460	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	340	270	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	5700	2700	ug/Kg	10	02/16/22	WB	SW8270D
Fluorene	580	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2000	270	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	530	270	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	3200	270	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	5800	2700	ug/Kg	10	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	85		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	61		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	68		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	82		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol (10x)	85		%	10	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	73		%	10	02/16/22	WB	30 - 130 %
% 2-Fluorophenol (10x)	59		%	10	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	62		%	10	02/16/22	WB	30 - 130 %
% Phenol-d5 (10x)	69		%	10	02/16/22	WB	30 - 130 %
% Terphenyl-d14 (10x)	64		%	10	02/16/22	WB	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270

QA/QC Surrogates

% 2,4,6-Tribromophenol	105		%	1	02/22/22	KCA	15 - 110 %
% 2-Fluorobiphenyl	87		%	1	02/22/22	KCA	30 - 130 %
% 2-Fluorophenol	74		%	1	02/22/22	KCA	15 - 110 %
% Nitrobenzene-d5	93		%	1	02/22/22	KCA	30 - 130 %
% Phenol-d5	75		%	1	02/22/22	KCA	15 - 110 %
% Terphenyl-d14	97		%	1	02/22/22	KCA	30 - 130 %

Semivolatile Library Search Completed 02/16/22 WB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

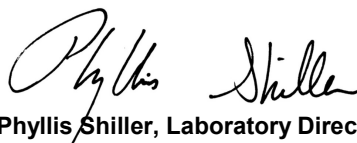
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

10:15
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66971

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH43

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	7120	55	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	3.60	0.74	mg/Kg	1	02/17/22	TH	SW6010D
Barium	129	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.37	0.29	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	9380	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	5.74	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	17.8	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Copper	33.6	0.7	mg/kg	1	02/17/22	TH	SW6010D
Iron	14400	55	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.77	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1540	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	3710	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	289	3.7	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	284	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	15.5	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Lead	215	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.67	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	22.6	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	116	0.7	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	85		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.22	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	80		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	102		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/16/22	I/L	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/21/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.8	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	86		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-D	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/17/22	KCA	SW8151A
Dalapon	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A
Dicamba	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	85		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	101		%	10	02/17/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	77		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	72		%	2	02/16/22	AW	30 - 150 %
% TCMX	70		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	24	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	12	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	14	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	57	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	5.3	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	46		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	02/16/22	AW	30 - 150 %
% TCMX	47		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	70		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	74		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	73		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	67		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	76		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	71		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	73		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	97		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	100		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 35	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	L 4.7	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.8	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	92		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 87	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	680	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	270	270	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	340	270	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	420	270	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	1100	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	1200	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	1000	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	690	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	920	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	1200	270	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	770	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	2500	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	790	270	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	1400	270	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	1100	270	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	2900	270	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	93		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	68		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	66		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	71		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	92		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	101		%	1	02/22/22	KCA	15 - 110 %
% 2-Fluorobiphenyl	85		%	1	02/22/22	KCA	30 - 130 %
% 2-Fluorophenol	71		%	1	02/22/22	KCA	15 - 110 %
% Nitrobenzene-d5	88		%	1	02/22/22	KCA	30 - 130 %
% Phenol-d5	69		%	1	02/22/22	KCA	15 - 110 %
% Terphenyl-d14	99		%	1	02/22/22	KCA	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

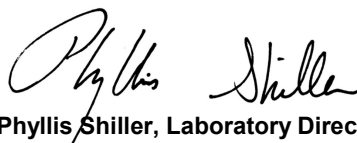
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

10:30
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66972

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH44

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	5940	55	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	8.48	0.74	mg/Kg	1	02/17/22	TH	SW6010D
Barium	135	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.89	0.30	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	7720	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Cadmium	0.61	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	6.03	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	17.6	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Copper	54.4	0.7	mg/kg	1	02/17/22	TH	SW6010D
Iron	14900	55	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.54	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	958	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	3340	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	264	3.7	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	162	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	18.6	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Lead	390	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.83	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.34	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	26.6	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	209	0.7	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	89		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.22	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.47	0.47	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	11	mg/kg	1	02/15/22	JRB	NJEPH 10-08 R3
C9-C28	29	11	mg/kg	1	02/15/22	JRB	NJEPH 10-08 R3
Total EPH	29	11	mg/kg	1	02/15/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	98		%	1	02/15/22	JRB	40 - 140 %
% Terphenyl (surr)	112		%	1	02/15/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/21/22	U/F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/21/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.2	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	94		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	79		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	85		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	76		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	76		%	2	02/16/22	AW	30 - 150 %
% TCMX	71		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	68		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	6.7	2.2	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDE	12	2.2	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDT	21	2.2	ug/Kg	2	02/17/22	AW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/17/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/17/22	AW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/17/22	AW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
g-BHC	ND	7.0	ug/Kg	2	02/17/22	AW	SW8081B
g-Chlordane	ND	6.0	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	02/17/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/17/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	70		%	2	02/17/22	AW	30 - 150 %
% DCBP (Confirmation)	77		%	2	02/17/22	AW	30 - 150 %
% TCMX	58		%	2	02/17/22	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	02/17/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	77		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	76		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/22/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/22/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	77		%	10	02/22/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	66		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	79		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	77		%	10	02/22/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	270	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	105		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	116		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	54	SL 50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 33	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	L 4.4	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.6	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 83	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	380	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	960	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	1100	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	890	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	660	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	800	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	980	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	740	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	2200	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	750	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	1400	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	2200	260	ug/Kg	1	02/16/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	95		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	64		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	65		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	86		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/21/22	KCA	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	107		%	1	02/21/22	KCA	15 - 110 %
% 2-Fluorobiphenyl	87		%	1	02/21/22	KCA	30 - 130 %
% 2-Fluorophenol	70		%	1	02/21/22	KCA	15 - 110 %
% Nitrobenzene-d5	90		%	1	02/21/22	KCA	30 - 130 %
% Phenol-d5	71		%	1	02/21/22	KCA	15 - 110 %
% Terphenyl-d14	93		%	1	02/21/22	KCA	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date Time
 02/11/22 10:55
 02/14/22 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66973

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH45

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	8820	55	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	6.76	0.74	mg/Kg	1	02/17/22	TH	SW6010D
Barium	111	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.47	0.30	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	7230	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Cadmium	0.57	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	7.61	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	30.1	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Copper	57.8	0.7	mg/kg	1	02/17/22	TH	SW6010D
Iron	22700	55	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.03	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1470	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	4330	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	765	3.7	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	206	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	23.0	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Lead	367	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.80	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	1.05	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	25.5	0.37	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	84.1	0.7	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	88		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.56	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.41	0.41	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	68	55	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
C9-C28	120	55	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
Total EPH	188	55	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	Interference		%	5	02/15/22	JRB	40 - 140 %
% Terphenyl (surr)	88		%	5	02/15/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/21/22	U/F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/21/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.4	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	98		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	77		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	84		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	66		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	66		%	2	02/16/22	AW	30 - 150 %
% TCMX	57		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	55		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	3.2	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	47		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	46		%	2	02/16/22	AW	30 - 150 %
% TCMX	53		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	48		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	75		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	76		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/22/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/22/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	72		%	10	02/22/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	61		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	75		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	74		%	10	02/22/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	123		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	101		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 33	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	L 4.4	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	L 5.5	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 83	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	2600	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	710	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	2400	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	4300	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	3400	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	2700	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	2600	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	2400	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	790	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	2400	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2900	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	570	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	620	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	3000	260	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	80		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	61		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	58		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	59		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	61		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	78		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	106		%	1	02/22/22	KCA	15 - 110 %
% 2-Fluorobiphenyl	90		%	1	02/22/22	KCA	30 - 130 %
% 2-Fluorophenol	79		%	1	02/22/22	KCA	15 - 110 %
% Nitrobenzene-d5	97		%	1	02/22/22	KCA	30 - 130 %
% Phenol-d5	78		%	1	02/22/22	KCA	15 - 110 %
% Terphenyl-d14	106		%	1	02/22/22	KCA	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

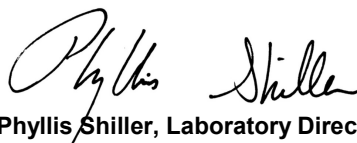
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

11:00
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66974

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH46

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	5810	55	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	9.92	0.73	mg/Kg	1	02/17/22	TH	SW6010D
Barium	348	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.33	0.29	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	13400	55	mg/Kg	10	02/17/22	TH	SW6010D
Cadmium	1.36	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	8.40	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	26.5	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Copper	38.0	0.7	mg/kg	1	02/17/22	TH	SW6010D
Iron	59300	55	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.40	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1160	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	6380	55	mg/Kg	10	02/17/22	TH	SW6010D
Manganese	531	3.6	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	239	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	20.3	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Lead	170	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	1.24	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	22.2	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	381	0.7	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	86		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	6.42	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.58	0.58	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	113		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	93		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/21/22	U/F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/21/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.6	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	92		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	290	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	90		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	94		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	42		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	45		%	2	02/16/22	AW	30 - 150 %
% TCMX	37		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	36		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	3.0	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	40		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	44		%	2	02/16/22	AW	30 - 150 %
% TCMX	31		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	32		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	76		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	76		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/22/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/22/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	37		%	10	02/22/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	31		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	74		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	73		%	10	02/22/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	96		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	120		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 35	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	L 4.7	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.8	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	L 5.8	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 87	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	800	270	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	1500	270	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	2500	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	2100	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	1800	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	1100	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	1300	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	500	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	2400	270	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	320	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	330	270	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	770	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	6000	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	630	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1400	270	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	5400	270	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	5500	270	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	109		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	76		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	67		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	81		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	74		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	80		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	89		%	1	02/22/22	KCA	15 - 110 %
% 2-Fluorobiphenyl	78		%	1	02/22/22	KCA	30 - 130 %
% 2-Fluorophenol	69		%	1	02/22/22	KCA	15 - 110 %
% Nitrobenzene-d5	81		%	1	02/22/22	KCA	30 - 130 %
% Phenol-d5	66		%	1	02/22/22	KCA	15 - 110 %
% Terphenyl-d14	86		%	1	02/22/22	KCA	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

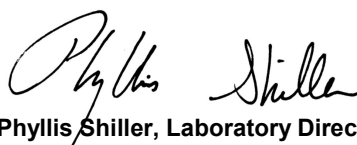
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

11:15
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66975

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH47

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	12100	58	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	1.81	0.77	mg/Kg	1	02/17/22	TH	SW6010D
Barium	106	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.38	0.31	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	7090	5.8	mg/Kg	1	02/17/22	TH	SW6010D
Cadmium	< 0.39	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	12.7	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	22.3	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Copper	56.8	0.8	mg/kg	1	02/17/22	TH	SW6010D
Iron	21200	58	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.21	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	5720	58	mg/Kg	10	02/17/22	TH	SW6010D
Magnesium	7930	58	mg/Kg	10	02/17/22	TH	SW6010D
Manganese	126	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Sodium	677	5.8	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	28.1	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Lead	51.8	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.33	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.19	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.5	3.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	27.9	0.39	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	82.9	0.8	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	85		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/17/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/17/22	G	SW846-Ignit
pH at 25C - Soil	8.35	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.49	0.49	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	58	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
C9-C28	ND	58	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
Total EPH	ND	58	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	69		%	5	02/15/22	JRB	40 - 140 %
% Terphenyl (surr)	87		%	5	02/15/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/21/22	U/F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/21/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.8	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	91		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	290	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	80		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	92		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	66		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	66		%	2	02/16/22	AW	30 - 150 %
% TCMX	55		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	53		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	52		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	45		%	2	02/16/22	AW	30 - 150 %
% TCMX	48		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	49		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	74		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	76		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/22/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/22/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	68		%	10	02/22/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	58		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	74		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	75		%	10	02/22/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	88		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	104		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	L 30	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 30	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 36	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	L 4.8	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	L 30	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.9	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	L 5.9	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 89	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	280	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	780	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	510	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	330	270	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	460	270	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	110		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	78		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	69		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	80		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	76		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	77		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	106		%	1	02/22/22	KCA	15 - 110 %
% 2-Fluorobiphenyl	89		%	1	02/22/22	KCA	30 - 130 %
% 2-Fluorophenol	78		%	1	02/22/22	KCA	15 - 110 %
% Nitrobenzene-d5	97		%	1	02/22/22	KCA	30 - 130 %
% Phenol-d5	77		%	1	02/22/22	KCA	15 - 110 %
% Terphenyl-d14	100		%	1	02/22/22	KCA	30 - 130 %
Semivolatile Library Search	Completed				02/23/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

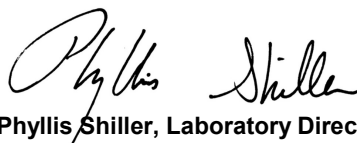
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date Time
 02/11/22 14:15
 02/14/22 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66976

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH48

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	6400	54	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	7.31	0.73	mg/Kg	1	02/17/22	TH	SW6010D
Barium	82.5	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.30	0.29	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	19100	54	mg/Kg	10	02/17/22	TH	SW6010D
Cadmium	0.42	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	5.00	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	13.9	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Copper	42.4	0.7	mg/kg	1	02/17/22	TH	SW6010D
Iron	16300	54	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.34	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	910	5.4	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	9850	54	mg/Kg	10	02/17/22	TH	SW6010D
Manganese	259	3.6	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	158	5.4	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	12.3	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Lead	190	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.69	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.39	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	21.1	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	109	0.7	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	84		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/17/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/17/22	G	SW846-Ignit
pH at 25C - Soil	8.40	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.66	0.66	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	59	mg/kg	5	02/16/22	AW	NJEPH 10-08 R3
C9-C28	ND	59	mg/kg	5	02/16/22	AW	NJEPH 10-08 R3
Total EPH	ND	59	mg/kg	5	02/16/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	74		%	5	02/16/22	AW	40 - 140 %
% Terphenyl (surr)	79		%	5	02/16/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/21/22	U/F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/21/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.9	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	94		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	290	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	150	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	150	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	59		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	72		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	65		%	2	02/16/22	AW	30 - 150 %
% TCMX	58		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	6.1	2.4	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDE	11	2.4	ug/Kg	2	02/17/22	AW	SW8081B
4,4' -DDT	6.4	2.4	ug/Kg	2	02/17/22	AW	SW8081B
a-BHC	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	02/17/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/17/22	AW	SW8081B
b-BHC	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	02/17/22	AW	SW8081B
d-BHC	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
Endrin	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
g-BHC	ND	5.0	ug/Kg	2	02/17/22	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	02/17/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/17/22	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	68		%	2	02/17/22	AW	30 - 150 %
% DCBP (Confirmation)	63		%	2	02/17/22	AW	30 - 150 %
% TCMX	56		%	2	02/17/22	AW	30 - 150 %
% TCMX (Confirmation)	53		%	2	02/17/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	79		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	72		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/22/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/22/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	76		%	10	02/22/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	64		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	76		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	75		%	10	02/22/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	88		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	94		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	L 30	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 30	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 36	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	L 4.8	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	L 30	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	6.0	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	L 6.0	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	93		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 90	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	470	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	460	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	430	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	300	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	290	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	500	270	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	770	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	1100	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	370	270	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	740	270	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	980	270	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	111		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	63		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	71		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	69		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	78		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	101		%	1	02/22/22	KCA	15 - 110 %
% 2-Fluorobiphenyl	81		%	1	02/22/22	KCA	30 - 130 %
% 2-Fluorophenol	69		%	1	02/22/22	KCA	15 - 110 %
% Nitrobenzene-d5	89		%	1	02/22/22	KCA	30 - 130 %
% Phenol-d5	70		%	1	02/22/22	KCA	15 - 110 %
% Terphenyl-d14	91		%	1	02/22/22	KCA	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

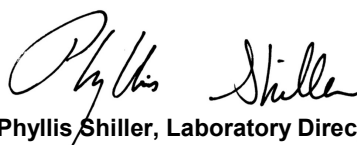
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

11:45
 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK66977

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH49

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	7770	55	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	4.85	0.73	mg/Kg	1	02/17/22	TH	SW6010D
Barium	41.2	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.30	0.29	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	4040	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Cadmium	< 0.36	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	4.25	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	14.0	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Copper	19.8	0.7	mg/kg	1	02/17/22	TH	SW6010D
Iron	11500	55	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	0.71	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	520	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	1750	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	153	3.6	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	64.7	5.5	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	9.36	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Lead	54.9	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.48	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	19.9	0.36	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	53.6	0.7	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	88		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/17/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/17/22	G	SW846-Ignit
pH at 25C - Soil	7.82	1.00	pH Units	1	02/14/22 22:43	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.52	0.52	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	100	57	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
C9-C28	330	57	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3
Total EPH	430	57	mg/kg	5	02/15/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	Diluted Out		%	5	02/15/22	JRB	40 - 140 %
% Terphenyl (surr)	Diluted Out		%	5	02/15/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/16/22	M/D	SW3546
NJ EPH Extraction	Completed				02/14/22	I/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/L	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/16/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/21/22	U/F/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/21/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/16/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.3	mg/Kg	50	02/17/22	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	98		%	50	02/17/22	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	83		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	97		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	81		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	75		%	2	02/16/22	AW	30 - 150 %
% TCMX	64		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	7.8	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	5.0	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	48		%	2	02/16/22	AW	30 - 150 %
% TCMX	56		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	56		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/18/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/18/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	80		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	78		%	10	02/18/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/22/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/22/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/22/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/22/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	65		%	10	02/22/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	55		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	62		%	10	02/22/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	61		%	10	02/22/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	55	mg/Kg	1	02/16/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	97		%	1	02/16/22	KCA	50 - 150 %
% Terphenyl (surr)	106		%	1	02/16/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 34	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	L 4.5	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.6	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	L 5.6	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	94		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 84	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	98		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	490	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	420	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	460	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	360	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	560	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	990	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	280	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	450	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	900	260	ug/Kg	1	02/16/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	114		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	71		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	84		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	78		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	79		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/22/22	KCA	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	109		%	1	02/22/22	KCA	15 - 110 %
% 2-Fluorobiphenyl	88		%	1	02/22/22	KCA	30 - 130 %
% 2-Fluorophenol	77		%	1	02/22/22	KCA	15 - 110 %
% Nitrobenzene-d5	94		%	1	02/22/22	KCA	30 - 130 %
% Phenol-d5	75		%	1	02/22/22	KCA	15 - 110 %
% Terphenyl-d14	94		%	1	02/22/22	KCA	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

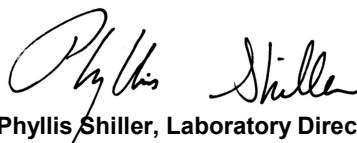
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22

Time

15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK67069

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: TB LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	25	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	30	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	4.0	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	25	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/kg	1	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	92		%	1	02/16/22	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	75	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
 BRL=Below Reporting Level L=Biased Low
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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

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

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



Phyllis Shiller, Laboratory Director

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date Time
 02/11/22
 02/14/22 15:54

Laboratory Data

SDG ID: GCK66962
 Phoenix ID: CK67070

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: TB HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,2-Dibromoethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
2-Hexanone	ND	1300	ug/kg	50	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/kg	50	02/16/22	JLI	SW8260C
Acetone	ND	2500	ug/kg	50	02/16/22	JLI	SW8260C
Benzene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Bromochloromethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Bromoform	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Bromomethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Chlorobenzene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Chloroethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Chloromethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Cyclohexane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Ethylbenzene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
m&p-Xylene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	1500	ug/kg	50	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	500	ug/kg	50	02/16/22	JLI	SW8260C
Methylacetate	ND	200	ug/kg	50	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Methylene chloride	ND	1300	ug/kg	50	02/16/22	JLI	SW8260C
o-Xylene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Styrene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Toluene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Total Xylenes	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Trichloroethene	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
Vinyl chloride	ND	250	ug/kg	50	02/16/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	94		%	50	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene (50x)	96		%	50	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	02/16/22	JLI	70 - 130 %
% Toluene-d8 (50x)	92		%	50	02/16/22	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	3800	ug/kg	50	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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

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

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



Phyllis Shiller, Laboratory Director

February 23, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH33

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66962

Sample wt/vol: 5.03 (g/mL) g

Lab File ID: 0215_25.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 21

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH34

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66963

Sample wt/vol: 5.01 (g/mL) g

Lab File ID: 0216_51.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 7

Date Analyzed: 02/17/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
60-29-7	Diethyl ether	1.671	110	Q
95-63-6	1,2,4-Trimethylbenzene	6.735	6.1	Q
000496-11-7	Indane	7.192	8.8	JN
001195-79-5	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	8.167	5.8	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH35

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66964

Sample wt/vol: 4.96 (g/mL) g

Lab File ID: 0215_27.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 10

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH36

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66965

Sample wt/vol: 5.11 (g/mL) g

Lab File ID: 0215_28.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 13

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 2 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
002437-95-8	Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-, (+/-)-	6.497	9.8	JN
	unknown	6.785	10	J

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH37

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE
Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK6696
Matrix:(soil/water) SOIL Lab Sample ID: CK66966
Sample wt/vol: 4.97 (g/mL) g Lab File ID: 0215_29.D
Level: (low/med) PPL Date Received: 02/14/22
% Moisture: not dec. 11 Date Analyzed: 02/15/22
GC Column: RTX-VMS ID: 0.18mm Dilution Factor: _____ 1
Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH38

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66967

Sample wt/vol: 4.96 (g/mL) g

Lab File ID: 0215_30.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 14

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:
 (ug/L or ug/KG)

Number TICs found: 0 ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH39

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66968

Sample wt/vol: 4.95 (g/mL) g

Lab File ID: 0215_31.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 13

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH40

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66969

Sample wt/vol: 4.94 (g/mL) g

Lab File ID: 0215_48.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 9

Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH42

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66970

Sample wt/vol: 5.08 (g/mL) g

Lab File ID: 0215_49.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 15

Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH43

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL Lab Sample ID: CK66971

Sample wt/vol: 5.06 (g/mL) g Lab File ID: 0215_50.D

Level: (low/med) PPL Date Received: 02/14/22

% Moisture: not dec. 15 Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 5 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
95-63-6	1,2,4-Trimethylbenzene	6.736	4.2	Q
000496-11-7	Indane	7.187	32	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	8.241	5.8	JN
108-05-4	Naphthalene	8.796	6.1	Q
000090-12-0	Naphthalene, 1-methyl-	9.630	28	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH44

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66972

Sample wt/vol: 5.05 (g/mL) g

Lab File ID: 0215_51.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 11

Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: _____ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): _____ 5000

CONCENTRATION UNITS:

Number TICs found: 5 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000106-97-8	Butane	1.189	6.3	JN
000109-66-0	Pentane	1.519	10	JN
000107-83-5	Pentane, 2-methyl-	1.939	6.4	JN
	unknown	2.169	14	J
000142-82-5	Heptane	3.113	11	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH45

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66973

Sample wt/vol: 5.14 (g/mL) g

Lab File ID: 0215_52.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 12

Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID BH46

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66974

Sample wt/vol: 5.01 (g/mL) g

Lab File ID: 0215_53.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 14

Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH47

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66975

Sample wt/vol: 4.96 (g/mL) g

Lab File ID: 0215_54.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 15

Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH48

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66976

Sample wt/vol: 4.95 (g/mL) g

Lab File ID: 0215_55.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 16

Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH49

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66977

Sample wt/vol: 5.04 (g/mL) g

Lab File ID: 0215_56.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 12

Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH33

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66962

Matrix:(soil/water) SOIL

Lab Sample ID: CK66962

Sample wt/vol: 15 (g/mL) g

Lab File ID: 0215_32.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 21 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 6 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.133	2600	JNA
	unknown hydrocarbon	5.614	390	J
1000309-19-0	Sulfurous acid, 2-ethylhexyl isohe	5.647	390	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.844	2600	JNC
000629-73-2	1-Hexadecene	6.877	1600	JN
000630-02-4	Octacosane	11.921	870	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH34

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66963

Sample wt/vol: 15.4 (g/mL) g

Lab File ID: 0215_33.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 7 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.213	220000	JNA

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH35

Lab Name: Phoenix Environmental LabsClient: AES-EASTSIDELab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696Matrix:(soil/water) SOILLab Sample ID: CK66964Sample wt/vol: 15.4 (g/mL) gLab File ID: 0215_34.DLevel: (low/med) LowDate Received: 02/14/22% Moisture: not dec. 10 decanted:(Y/N) NADate Extracted: 02/16/22GPC Cleanup (Y/N): N pH: NADate Analyzed: 2/16/2022Conc. Extract Volume: 1000 (uL)Dilution Factor 1Injection Volume: 1 (uL)Number TICs found: 4CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.127	1300	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.844	1100	JNC
1000130-97-9	E-15-Heptadecenal	6.882	690	JN
	unknown hydrocarbon	7.583	340	J

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH36

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66962

Matrix:(soil/water) SOIL

Lab Sample ID: CK66965

Sample wt/vol: 15.34 (g/mL) g

Lab File ID: 0215_35.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 13 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.132	1600	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.844	2000	JNC
000629-73-2	1-Hexadecene	6.882	1200	JN
000559-74-0	Friedelan-3-one	17.376	2200	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH37

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66962

Matrix:(soil/water) SOIL

Lab Sample ID: CK66966

Sample wt/vol: 15.07 (g/mL) g

Lab File ID: 0215_36.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 11 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.132	1800	JNA
	unknown hydrocarbon	5.614	330	J
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.844	2100	JNC
074685-29-3	9-Eicosene, (E)-	6.882	1200	JN
014811-95-1	1,19-Eicosadiene	11.509	670	JN
000544-76-3	Hexadecane	11.931	390	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH38

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK66962

Matrix:(soil/water) SOIL Lab Sample ID: CK66967

Sample wt/vol: 15.12 (g/mL) g Lab File ID: 0215_26.D

Level: (low/med) Low Date Received: 02/14/22

% Moisture: not dec. 14 decanted:(Y/N) NA Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 4 CONCENTRATION UNITS: ug/Kg
(ug/L or ug/KG)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.132	2100	JNA
000544-76-3	Hexadecane	5.646	350	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.839	2200	JNC
000629-73-2	1-Hexadecene	6.877	1500	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH39

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66968

Sample wt/vol: 9.21 (g/mL) g

Lab File ID: 0215_41.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 13 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 13 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.127	2300	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.850	2800	JNC
074685-29-3	9-Eicosene, (E)-	6.887	1600	JN
	Octacosane Isomer	11.947	550	JN
000630-02-4	Octacosane	11.953	610	JN
014811-95-1	1,19-Eicosadiene	13.263	1200	JN
000638-66-4	Octadecanal	13.268	520	JN
000593-45-3	Octadecane	13.777	880	JN
000630-04-6	Hentriacontane	15.723	1000	JN
346612-51-9	Pyrimidine-4,6-dione, hexahydro-3-	16.579	670	JN
1000131-07-6	Z-14-Octadecen-1-ol acetate	16.633	4800	JN
001058-61-3	Stigmast-4-en-3-one	16.889	900	JN
	unknown hydrocarbon	16.895	1400	J

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH40

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE
Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK66962
Matrix:(soil/water) SOIL Lab Sample ID: CK66969
Sample wt/vol: 15.07 (g/mL) g Lab File ID: 0215_42.D
Level: (low/med) Low Date Received: 02/14/22
% Moisture: not dec. 9 decanted:(Y/N) NA Date Extracted: 02/16/22
GPC Cleanup (Y/N): N pH: NA Date Analyzed: 2/16/2022
Conc. Extract Volume: 1000 (uL) Dilution Factor 1
Injection Volume: 1 (uL)
Number TICs found: 7 CONCENTRATION UNITS: ug/Kg
(ug/L or ug/KG)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.127	10000	JNA
	unknown hydrocarbon	4.748	300	J
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.850	2600	JNC
000112-88-9	1-Octadecene	6.882	1500	JN
	unknown hydrocarbon	7.588	550	J
002381-21-7	Pyrene, 1-methyl-	8.652	460	JN
000238-84-6	11H-Benzo[a]fluorene	8.765	320	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH42

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66962

Matrix:(soil/water) SOIL

Lab Sample ID: CK66970

Sample wt/vol: 15.47 (g/mL) g

Lab File ID: 0215_37.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.127	1900	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.844	2800	JNC
000629-73-2	1-Hexadecene	6.882	1500	JN
002531-84-2	Phenanthrene, 2-methyl-	7.481	480	JN
000832-69-9	Phenanthrene, 1-methyl-	7.508	560	JN
	Phenanthrene, 1-methyl- Isomer	7.540	560	JN
	unknown hydrocarbon	7.588	1900	J
000612-94-2	Naphthalene, 2-phenyl-	7.743	570	JN
003674-66-6	Phenanthrene, 2,5-dimethyl-	7.984	720	JN
000243-17-4	11H-Benzo[b]fluorene	8.647	1300	JN
002381-21-7	Pyrene, 1-methyl-	8.711	620	JN
	Pyrene, 2-methyl- Isomer	8.754	850	JN
003442-78-2	Pyrene, 2-methyl-	8.888	530	JN
002541-69-7	Benz[a]anthracene, 7-methyl-	10.364	770	JN
000207-08-9	Benzo[k]fluoranthene	12.263	1600	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH43

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66971

Sample wt/vol: 15.29 (g/mL) g

Lab File ID: 0215_38.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 7

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.133	1900	JNA
000090-12-0	Naphthalene, 1-methyl-	4.903	360	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.844	2200	JNC
074685-29-3	9-Eicosene, (E)-	6.882	1200	JN
	unknown hydrocarbon	7.588	780	J
033543-31-6	Fluoranthene, 2-methyl-	8.647	420	JN
000192-97-2	Benzo[e]pyrene	12.236	720	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH44

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCK66962

Matrix:(soil/water) SOIL

Lab Sample ID: CK66972

Sample wt/vol: 15.09 (g/mL) g

Lab File ID: 0215_39.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 11 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 8 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.132	1800	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.844	2000	JNC
074685-29-3	9-Eicosene, (E)-	6.882	1300	JN
	unknown hydrocarbon	7.588	420	J
000243-17-4	11H-Benzo[b]fluorene	8.647	610	JN
000205-99-2	Benz[e]acephenanthrylene	11.856	330	JN
000192-97-2	Benzo[e]pyrene	12.230	600	JN
	unknown hydrocarbon	16.488	380	J

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH45

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66973

Sample wt/vol: 15.16 (g/mL) g

Lab File ID: 0215_40.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.132	2200	JNA
000827-54-3	Naphthalene, 2-ethenyl-	5.481	870	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.844	2200	JNC
000112-88-9	1-Octadecene	6.882	1200	JN
	unknown hydrocarbon	7.588	670	J
005737-13-3	Cyclopenta(ef)phenanthrene	8.064	710	JN
000206-44-0	Fluoranthene	8.198	750	JN
	Fluoranthene Isomer	8.267	770	JN
002381-21-7	Pyrene, 1-methyl-	8.647	1500	JN
	unknown hydrocarbon	8.829	640	J
003353-12-6	Pyrene, 4-methyl-	8.861	750	JN
002541-69-7	Benz[a]anthracene, 7-methyl-	10.364	1000	JN
000207-08-9	Benzo[k]fluoranthene	11.883	1400	JN
000192-97-2	Benzo[e]pyrene	12.263	2400	JN
000205-99-2	Benz[e]acephenanthrylene	12.573	940	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
CK66974 BLK

Lab Name: Phoenix Environmental Labs

Client: _____

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix:(soil/water) Soil

Lab Sample ID: CK66974 BLK

Sample wt/vol: 15 (g/mL) g

Lab File ID: 0218_08.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. n.a. decanted:(Y/N) NA

Date Extracted: 02/19/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/19/2022

Conc. Extract Volume: 2000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.875	2000	JNC
000112-88-9	1-Octadecene	6.916	1300	JN
018435-45-5	1-Nonadecene	8.328	1400	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH46

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66962

Matrix:(soil/water) SOIL

Lab Sample ID: CK66974

Sample wt/vol: 15.11 (g/mL) g

Lab File ID: 0215_20.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 14 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.854	800	JNA
000629-73-2	1-Hexadecene	6.484	1300	JN
000832-69-9	Phenanthrene, 1-methyl-	7.037	730	JN
	Phenanthrene, 1-methyl- Isomer	7.060	750	JN
000613-12-7	Anthracene, 2-methyl-	7.136	1500	JN
035465-71-5	2-Phenyl-naphthalene	7.295	560	JN
033543-31-6	Fluoranthene, 2-methyl-	8.053	690	JN
000243-17-4	11H-Benzo[b]fluorene	8.147	1700	JN
002381-21-7	Pyrene, 1-methyl-	8.200	940	JN
	unknown hydrocarbon	8.235	850	J
000479-79-8	11H-Benzo[a]fluoren-11-one	8.635	570	JN
025732-74-5	Cyclopenta(cd)pyrene, 3,4-dihydro-	8.764	730	JN
002541-69-7	Benz[a]anthracene, 7-methyl-	9.540	720	JN
000192-97-2	Benzo[e]pyrene	10.785	590	JN
	Benzo[e]pyrene Isomer	11.108	1300	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH47

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66962

Matrix:(soil/water) SOIL

Lab Sample ID: CK66975

Sample wt/vol: 15.13 (g/mL) g

Lab File ID: 0215_21.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.854	860	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.462	1600	JNC
074685-33-9	3-Eicosene, (E)-	6.484	880	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH48

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66962

Matrix:(soil/water) SOIL

Lab Sample ID: CK66976

Sample wt/vol: 15.5 (g/mL) g

Lab File ID: 0215_22.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 16 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.854	950	JNA
000192-97-2	Benzo[e]pyrene	11.097	350	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH49

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK6696

Matrix:(soil/water) SOIL

Lab Sample ID: CK66977

Sample wt/vol: 15.01 (g/mL) g

Lab File ID: 0215_23.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.860	1000	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.462	1300	JNC
035507-09-6	7-Hexadecene, (Z)-	6.484	770	JN
007098-21-7	Tritetracontane	10.920	370	JN
000207-08-9	Benzo[k]fluoranthene	11.102	330	JN
000638-67-5	Tricosane	12.536	480	JN
088373-58-4	D:A-Friedo-2,3-secooleanane-2,3-di	17.219	320	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.



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



QA/QC Report

February 23, 2022

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 612183 (mg/L), QC Sample No: CK66592 (CK66962, CK66963, CK66964, CK66965)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	122			104			80 - 120	20
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 612184 (mg/L), QC Sample No: CK66720 (CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	98.4			95.3			80 - 120	20
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 612201 (mg/kg), QC Sample No: CK66979 2X (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

Mercury - Soil	BRL	0.03	0.03	0.08	NC	121	122	0.8	118	108	8.8	70 - 130	30
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 612188 (mg/L), QC Sample No: CK66720 (CK66977)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	0.10	<0.10	NC	110	111	0.9	104			80 - 120	20
Barium	BRL	0.10	0.10	<0.10	NC	105	106	0.9	102			80 - 120	20
Cadmium	BRL	0.050	0.528	0.418	23.3	108	109	0.9	104			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	103	104	1.0	103			80 - 120	20
Lead	BRL	0.10	0.25	0.20	NC	109	111	1.8	105			80 - 120	20
Selenium	BRL	0.10	<0.10	<0.10	NC	111	115	3.5	108			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	109	111	1.8	101			80 - 120	20

Comment:
 Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 612187 (mg/L), QC Sample No: CK66957 (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	<0.10	<0.10	NC	111	113	1.8	104			80 - 120	20
Barium	BRL	0.10	0.57	0.92	47.0	106	107	0.9	101			80 - 120	20
Cadmium	BRL	0.050	<0.050	<0.050	NC	108	110	1.8	104			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	104	106	1.9	101			80 - 120	20
Lead	BRL	0.10	<0.10	<0.10	NC	109	113	3.6	105			80 - 120	20
Selenium	BRL	0.10	<0.10	<0.10	NC	114	117	2.6	105			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	110	112	1.8	101			80 - 120	20

Comment:
 Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 612119 (mg/kg), QC Sample No: CK66961 (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

ICP Metals - Soil

Aluminum	BRL	5.0	7200	6950	3.50	86.1	91.3	5.9	NC			75 - 125	35
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QA/QC Data

SDG I.D.: GCK66962

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Antimony	BRL	3.3	<3.8	<3.9	NC	94.4	93.9	0.5	93.3			75 - 125	35
Arsenic	BRL	0.67	5.79	4.47	25.7	90.6	94.2	3.9	102			75 - 125	35
Barium	BRL	0.33	239	396	49.4	102	106	3.8	88.1			75 - 125	35
Beryllium	BRL	0.27	0.64	0.64	NC	106	110	3.7	103			75 - 125	35
Cadmium	BRL	0.33	0.48	0.44	NC	101	103	2.0	105			75 - 125	35
Calcium	BRL	5.0	6440	5780	10.8	101	105	3.9	NC			75 - 125	35
Chromium	BRL	0.33	20.4	20.7	1.50	108	110	1.8	106			75 - 125	35
Cobalt	BRL	0.33	8.07	8.96	10.5	108	109	0.9	102			75 - 125	35
Copper	BRL	0.67	48.4	41.9	14.4	106	111	4.6	103			75 - 125	35
Iron	BRL	5.0	21000	21900	4.20	94.4	104	9.7	NC			75 - 125	35
Lead	BRL	0.33	237	202	15.9	101	107	5.8	104			75 - 125	35
Magnesium	BRL	5.0	2550	2330	9.00	98.7	102	3.3	NC			75 - 125	35
Manganese	BRL	0.33	338	456	29.7	106	111	4.6	101			75 - 125	35
Nickel	BRL	0.33	20.0	19.7	1.50	104	105	1.0	104			75 - 125	35
Potassium	BRL	5.0	1510	1460	3.40	89.8	93.1	3.6	>130			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.6	NC	79.7	82.7	3.7	99.7			75 - 125	35
Silver	BRL	0.33	<0.38	<0.39	NC	101	106	4.8	100			75 - 125	35
Sodium	BRL	5.0	136	131	3.70	88.1	92.3	4.7	>130			75 - 125	35
Thallium	BRL	3.0	<3.4	<3.5	NC	98.4	101	2.6	100			75 - 125	35
Vanadium	BRL	0.33	26.9	26.6	1.10	103	108	4.7	105			75 - 125	35
Zinc	BRL	0.67	151	136	10.5	99.4	103	3.6	107			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

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

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

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



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QA/QC Report

February 23, 2022

QA/QC Data

SDG I.D.: GCK66962

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 612579 (mg/Kg), QC Sample No: CK65111 5X (CK66962, CK66963, CK66964)													
Reactivity Cyanide	BRL	5	<5	<5.5	NC	103						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	92.0						80 - 120	30
QA/QC Batch 612504 (mg/Kg), QC Sample No: CK66958 50X (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.47	<0.47	NC	93.5			84.0			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 612580 (mg/Kg), QC Sample No: CK66965 5X (CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)													
Reactivity Cyanide	BRL	5	<6	<5.5	NC	103						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	92.0						80 - 120	30
QA/QC Batch 612439 (Degree F), QC Sample No: CK66856 (CK66962, CK66963)													
Flash Point			>200	>200	NC	100						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 612170 (PH), QC Sample No: CK66954 (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973)													
pH at 25C - Soil			8.39	8.35	0.50	100						85 - 115	20
QA/QC Batch 612440 (Degree F), QC Sample No: CK66967 (CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974)													
Flash Point			>200	>200	NC	101						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 612171 (PH), QC Sample No: CK66974 (CK66974, CK66975, CK66976, CK66977)													
pH at 25C - Soil			6.42	6.38	0.60	100						85 - 115	20
QA/QC Batch 612628 (Degree F), QC Sample No: CK66977 (CK66975, CK66976, CK66977)													
Flash Point			>200	>200	NC	100						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													



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QA/QC Report

February 23, 2022

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 612472 (mg/kg), QC Sample No: CK66811 (CK66967, CK66968, CK66969, CK66970, CK66971)										
Extractable Petroleum Hydrocarbons - Soil										
C9-C28	ND	10	106	94	12.0	94	99	5.2	40 - 140	25
C9-C28 #2 Fuel / Diesel			111	103	7.5				40 - 140	25
>C28-C40	ND	10	83	75	10.1	100	104	3.9	40 - 140	25
C9 - Nonane	ND	3.3	63	51	21.1	38	38	0.0	40 - 140	25
C10 - Decane	ND	3.3	82	62	27.8	57	58	1.7	40 - 140	25
C12 - Dodecane	ND	3.3	100	78	24.7	64	64	0.0	40 - 140	25
C14 - Tetradecane	ND	3.3	100	102	2.0	92	81	12.7	40 - 140	25
C16 - Hexadecane	ND	3.3	112	100	11.3	108	103	4.7	40 - 140	25
C18 - Octadecane	ND	3.3	146	145	0.7	129	131	1.5	40 - 140	25
C20 - Eicosane	ND	3.3	113	101	11.2	104	109	4.7	40 - 140	25
C21 - Heneicosane	ND	3.3	111	95	15.5	110	109	0.9	40 - 140	25
C22 - Docosane	ND	3.3	135	131	3.0	121	128	5.6	40 - 140	25
C24 - Tetracosane	ND	3.3	102	87	15.9	96	105	9.0	40 - 140	25
C26 - Hexacosane	ND	3.3	100	86	15.1	97	103	6.0	40 - 140	25
C28 - Octacosane	ND	3.3	99	85	15.2	98	144	38.0	40 - 140	25
C30 - Tricotane	ND	3.3	92	80	14.0	97	101	4.0	40 - 140	25
C32 - Dotriacontane	ND	3.3	89	78	13.2	98	110	11.5	40 - 140	25
C34 - Tetratriacontane	ND	3.3	86	77	11.0	100	104	3.9	40 - 140	25
C36 - Hexatriacontane	ND	3.3	79	72	9.3	97	98	1.0	40 - 140	25
C38 - Octatriacontane	ND	3.3	76	72	5.4	99	101	2.0	40 - 140	25
C40 - Tetracontane	ND	3.3	73	72	1.4	107	110	2.8	40 - 140	25
% COD (surr)	94	%	102	87	15.9	84	102	19.4	40 - 140	25
% Terphenyl (surr)	121	%	105	92	13.2	91	98	7.4	40 - 140	25

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%
 Additional: MS acceptance range 50-150%.

QA/QC Batch 612266 (mg/kg), QC Sample No: CK66956 (CK66962, CK66963, CK66964, CK66965, CK66966)

Extractable Petroleum Hydrocarbons - Soil

C9-C28	ND	10	94	99	5.2	85	83	2.4	40 - 140	25
C9-C28 #2 Fuel / Diesel			113	109	3.6				40 - 140	25
>C28-C40	ND	10	82	87	5.9	64	71	10.4	40 - 140	25
C9 - Nonane	ND	3.3	73	75	2.7	57	61	6.8	40 - 140	25
C10 - Decane	ND	3.3	88	91	3.4	71	72	1.4	40 - 140	25
C12 - Dodecane	ND	3.3	93	97	4.2	83	86	3.6	40 - 140	25
C14 - Tetradecane	ND	3.3	100	104	3.9	99	88	11.8	40 - 140	25
C16 - Hexadecane	ND	3.3	105	110	4.7	104	98	5.9	40 - 140	25
C18 - Octadecane	ND	3.3	124	129	4.0	94	82	13.6	40 - 140	25
C20 - Eicosane	ND	3.3	109	113	3.6	93	85	9.0	40 - 140	25
C21 - Heneicosane	ND	3.3	87	90	3.4	88	92	4.4	40 - 140	25
C22 - Docosane	ND	3.3	92	104	12.2	73	89	19.8	40 - 140	25
C24 - Tetracosane	ND	3.3	82	92	11.5	114	85	29.1	40 - 140	25

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
C26 - Hexacosane	ND	3.3	85	93	9.0	72	82	13.0	40 - 140	25
C28 - Octacosane	ND	3.3	90	88	2.2	68	75	9.8	40 - 140	25
C30 - Tricotane	ND	3.3	88	88	0.0	69	73	5.6	40 - 140	25
C32 - Dotriacontane	ND	3.3	84	87	3.5	62	74	17.6	40 - 140	25
C34 - Tetratriacontane	ND	3.3	85	80	6.1	74	80	7.8	40 - 140	25
C36 - Hexatriacontane	ND	3.3	81	84	3.6	59	66	11.2	40 - 140	25
C38 - Octatriacontane	ND	3.3	75	84	11.3	62	68	9.2	40 - 140	25
C40 - Tetracontane	ND	3.3	79	102	25.4	60	68	12.5	40 - 140	25
% COD (surr)	90	%	110	121	9.5	67	93	32.5	40 - 140	25
% Terphenyl (surr)	103	%	97	100	3.0	88	94	6.6	40 - 140	25

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

Additional: MS acceptance range 50-150%.

QA/QC Batch 612157 (mg/kg), QC Sample No: CK66974 (CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

Extractable Petroleum Hydrocarbons - Soil

C9-C28	ND	10	105	94	11.1	88			40 - 140	25
C9-C28 #2 Fuel / Diesel			131	110	17.4				40 - 140	25
>C28-C40	ND	10	86	84	2.4	90			40 - 140	25
C9 - Nonane	ND	3.3	73	56	26.4	50			40 - 140	25
C10 - Decane	ND	3.3	90	78	14.3	65			40 - 140	25
C12 - Dodecane	ND	3.3	98	93	5.2	80			40 - 140	25
C14 - Tetradecane	ND	3.3	111	102	8.5	91			40 - 140	25
C16 - Hexadecane	ND	3.3	115	103	11.0	95			40 - 140	25
C18 - Octadecane	ND	3.3	139	122	13.0	123			40 - 140	25
C20 - Eicosane	ND	3.3	120	107	11.5	100			40 - 140	25
C21 - Heneicosane	ND	3.3	102	91	11.4	89			40 - 140	25
C22 - Docosane	ND	3.3	118	106	10.7	131			40 - 140	25
C24 - Tetracosane	ND	3.3	95	87	8.8	84			40 - 140	25
C26 - Hexacosane	ND	3.3	99	94	5.2	86			40 - 140	25
C28 - Octacosane	ND	3.3	103	91	12.4	68			40 - 140	25
C30 - Tricotane	ND	3.3	98	91	7.4	88			40 - 140	25
C32 - Dotriacontane	ND	3.3	95	88	7.7	76			40 - 140	25
C34 - Tetratriacontane	ND	3.3	93	88	5.5	82			40 - 140	25
C36 - Hexatriacontane	ND	3.3	84	82	2.4	79			40 - 140	25
C38 - Octatriacontane	ND	3.3	75	78	3.9	88			40 - 140	25
C40 - Tetracontane	ND	3.3	74	78	5.3	126			40 - 140	25
% COD (surr)	79	%	115	104	10.0	102			40 - 140	25
% Terphenyl (surr)	88	%	100	94	6.2	87			40 - 140	25

Comment:

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

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

Additional: MS acceptance range 50-150%.

QA/QC Batch 612264 (mg/Kg), QC Sample No: CK66960 (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	84	88	4.7	104	80	26.1	30 - 130	30
% COD (surr)	98	%	135	104	25.9	116	116	0.0	50 - 150	30
% Terphenyl (surr)	100	%	114	97	16.1	119	114	4.3	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blank	Blk RL	LCS %	LCS D %	LCS RPD	MS %	MS D %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 612584 (mg/Kg), QC Sample No: CK66950 (CK66962 (50X) , CK66963 (50X) , CK66964 (50X) , CK66965 (50X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	0.10	73	77	5.3	76	75	1.3	70 - 130	30
% 2,5-Dibromotoluene (FID)	94	%	110	102	7.5	99	95	4.1	70 - 130	30

QA/QC Batch 612630 (mg/Kg), QC Sample No: CK66966 (CK66966 (50X) , CK66967 (50X) , CK66968 (50X) , CK66969 (50X) , CK66970 (50X) , CK66971 (50X) , CK66972 (50X) , CK66973 (50X) , CK66974 (50X) , CK66975 (50X) , CK66976 (50X) , CK66977 (50X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)			75	79	5.2	77	80	3.8	70 - 130	30
% 2,5-Dibromotoluene (FID)	85		77	87	12.2	90	88	2.2	70 - 130	30

QA/QC Batch 612356 (ug/Kg), QC Sample No: CK66778 10X (CK66962, CK66963, CK66964)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	78	85	8.6	72	66	8.7	40 - 140	30
2,4,5-TP (Silvex)	ND	130	72	79	9.3	63	58	8.3	40 - 140	30
2,4-D	ND	250	80	89	10.7	68	61	10.9	40 - 140	30
2,4-DB	ND	2500	93	102	9.2	67	62	7.8	40 - 140	30
Dalapon	ND	130	64	68	6.1	64	57	11.6	40 - 140	30
Dicamba	ND	130	76	89	15.8	79	71	10.7	40 - 140	30
Dichloroprop	ND	130	87	95	8.8	82	67	20.1	40 - 140	30
Dinoseb	ND	130	75	83	10.1	62	59	5.0	40 - 140	30
% DCAA (Surrogate Rec)	76	%	98	105	6.9	90	82	9.3	30 - 150	30
% DCAA (Surrogate Rec) (Confirm)	80	%	106	114	7.3	88	84	4.7	30 - 150	30

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 612399 (ug/L), QC Sample No: CK66966 10X (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

TCLP Herbicides

2,4,5-TP (Silvex)	ND	50	85	78	8.6	76		40 - 140	20
2,4-D	ND	100	88	80	9.5	87		40 - 140	20
% DCAA	68	%	84	79	6.1	103		30 - 150	20
% DCAA (Confirmation)	72	%	80	77	3.8	76		30 - 150	20

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 612496 (ug/Kg), QC Sample No: CK66979 10X (CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	79	66	17.9	81	73	10.4	40 - 140	30
2,4,5-TP (Silvex)	ND	130	74	63	16.1	69	74	7.0	40 - 140	30
2,4-D	ND	250	78	66	16.7	68	76	11.1	40 - 140	30
2,4-DB	ND	2500	82	66	21.6	74	75	1.3	40 - 140	30
Dalapon	ND	130	60	57	5.1	55	54	1.8	40 - 140	30
Dicamba	ND	130	72	65	10.2	67	74	9.9	40 - 140	30
Dichloroprop	ND	130	88	74	17.3	80	85	6.1	40 - 140	30
Dinoseb	ND	130	67	59	12.7	69	70	1.4	40 - 140	30
% DCAA (Surrogate Rec)	91	%	95	85	11.1	88	91	3.4	30 - 150	30
% DCAA (Surrogate Rec) (Confirm)	102	%	100	88	12.8	95	95	0.0	30 - 150	30

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Data

SDG I.D.: GCK66962

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

QA/QC Batch 612278 (ug/Kg), QC Sample No: CK66777 2X (CK66962, CK66963, CK66964)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	89	87	2.3	87	82	5.9	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	103	101	2.0	101	96	5.1	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	91	%	110	110	0.0	109	102	6.6	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	90	%	104	106	1.9	103	100	3.0	30 - 150	30
% TCMX (Surrogate Rec)	78	%	93	89	4.4	89	84	5.8	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	75	%	94	90	4.3	90	84	6.9	30 - 150	30

QA/QC Batch 612280 (ug/Kg), QC Sample No: CK66965 2X (CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	73	72	1.4	63	61	3.2	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	88	90	2.2	75	73	2.7	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	84	%	94	94	0.0	78	77	1.3	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	82	%	90	90	0.0	76	75	1.3	30 - 150	30
% TCMX (Surrogate Rec)	71	%	81	80	1.2	68	65	4.5	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	72	%	82	81	1.2	68	65	4.5	30 - 150	30

QA/QC Batch 612279 (ug/Kg), QC Sample No: CK66777 2X (CK66962, CK66963, CK66964)

Pesticides - Soil

4,4' -DDD	ND	1.7	85	70	19.4	90	86	4.5	40 - 140	30
4,4' -DDE	ND	1.7	70	66	5.9	81	79	2.5	40 - 140	30
4,4' -DDT	ND	1.7	62	47	27.5	67	62	7.8	40 - 140	30
a-BHC	ND	1.0	83	75	10.1	83	81	2.4	40 - 140	30
a-Chlordane	ND	3.3	73	62	16.3	80	81	1.2	40 - 140	30
Aldrin	ND	1.0	88	68	25.6	89	90	1.1	40 - 140	30
b-BHC	ND	1.0	65	78	18.2	88	83	5.8	40 - 140	30
Chlordane	ND	3.3	78	65	18.2	81	83	2.4	40 - 140	30
d-BHC	ND	3.3	62	65	4.7	81	77	5.1	40 - 140	30
Dieldrin	ND	1.0	75	71	5.5	91	83	9.2	40 - 140	30
Endosulfan I	ND	3.3	77	66	15.4	77	80	3.8	40 - 140	30
Endosulfan II	ND	3.3	102	67	41.4	93	87	6.7	40 - 140	30
Endosulfan sulfate	ND	3.3	55	59	7.0	75	72	4.1	40 - 140	30
Endrin	ND	3.3	61	56	8.5	74	69	7.0	40 - 140	30
Endrin aldehyde	ND	3.3	61	56	8.5	66	60	9.5	40 - 140	30
Endrin ketone	ND	3.3	80	53	40.6	83	75	10.1	40 - 140	30
g-BHC	ND	1.0	73	77	5.3	84	80	4.9	40 - 140	30
g-Chlordane	ND	3.3	78	65	18.2	81	83	2.4	40 - 140	30

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	BLK RL								
Heptachlor	ND	3.3	64	65	1.6	80	78	2.5	40 - 140	30
Heptachlor epoxide	ND	3.3	81	65	21.9	82	84	2.4	40 - 140	30
Methoxychlor	ND	3.3	52	56	7.4	61	54	12.2	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	82	%	77	87	12.2	79	78	1.3	30 - 150	30
% DCBP (Confirmation)	65	%	69	81	16.0	74	68	8.5	30 - 150	30
% TCMX	47	%	75	67	11.3	73	72	1.4	30 - 150	30
% TCMX (Confirmation)	66	%	75	68	9.8	74	69	7.0	30 - 150	30

QA/QC Batch 612876 (ug/L), QC Sample No: CK66956 10X (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971)

Pesticides

4,4' -DDD	ND	0.25	104	80	26.1	96			40 - 140	20	r
4,4' -DDE	ND	0.25	95	82	14.7	98			40 - 140	20	
4,4' -DDT	ND	0.25	102	95	7.1	99			40 - 140	20	
a-BHC	ND	0.15	79	73	7.9	88			40 - 140	20	
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20	
Aldrin	ND	0.15	93	81	13.8	98			40 - 140	20	
b-BHC	ND	0.15	97	79	20.5	98			40 - 140	20	
Chlordane	ND	5.0	92	81	12.7	95			40 - 140	20	
d-BHC	ND	0.50	75	65	14.3	78			40 - 140	20	
Dieldrin	ND	0.15	101	90	11.5	108			40 - 140	20	
Endosulfan I	ND	0.50	89	77	14.5	99			40 - 140	20	
Endosulfan II	ND	0.50	102	84	19.4	102			40 - 140	20	
Endosulfan sulfate	ND	0.50	94	89	5.5	100			40 - 140	20	
Endrin	ND	0.50	81	78	3.8	92			40 - 140	20	
Endrin aldehyde	ND	0.50	100	80	22.2	92			40 - 140	20	r
g-BHC	ND	0.15	87	78	10.9	96			40 - 140	20	
Heptachlor	ND	0.50	86	74	15.0	91			40 - 140	20	
Heptachlor epoxide	ND	0.50	93	84	10.2	101			40 - 140	20	
Methoxychlor	ND	0.50	81	62	26.6	77			40 - 140	20	r
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20	
% DCBP	90	%	92	91	1.1	96			30 - 150	20	
% DCBP (Confirmation)	71	%	79	73	7.9	77			30 - 150	20	
% TCMX	57	%	68	65	4.5	80			30 - 150	20	
% TCMX (Confirmation)	66	%	75	71	5.5	79			30 - 150	20	

QA/QC Batch 612281 (ug/Kg), QC Sample No: CK66965 2X (CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

Pesticides - Soil

4,4' -DDD	ND	1.7	84	87	3.5	109			40 - 140	30
4,4' -DDE	ND	1.7	83	86	3.6	118			40 - 140	30
4,4' -DDT	ND	1.7	89	77	14.5	88			40 - 140	30
a-BHC	ND	1.0	80	85	6.1	60			40 - 140	30
a-Chlordane	ND	3.3	79	80	1.3	101			40 - 140	30
Aldrin	ND	1.0	79	82	3.7	60			40 - 140	30
b-BHC	ND	1.0	78	82	5.0	61			40 - 140	30
Chlordane	ND	33	80	83	3.7	82			40 - 140	30
d-BHC	ND	3.3	71	74	4.1	63			40 - 140	30
Dieldrin	ND	1.0	81	85	4.8	70			40 - 140	30
Endosulfan I	ND	3.3	79	83	4.9	63			40 - 140	30
Endosulfan II	ND	3.3	80	82	2.5	62			40 - 140	30
Endosulfan sulfate	ND	3.3	83	81	2.4	65			40 - 140	30
Endrin	ND	3.3	77	77	0.0	67			40 - 140	30

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Endrin aldehyde	ND	3.3	71	71	0.0	45			40 - 140	30
Endrin ketone	ND	3.3	73	75	2.7	56			40 - 140	30
g-BHC	ND	1.0	83	86	3.6	56			40 - 140	30
g-Chlordane	ND	3.3	80	83	3.7	82			40 - 140	30
Heptachlor	ND	3.3	79	82	3.7	62			40 - 140	30
Heptachlor epoxide	ND	3.3	81	84	3.6	70			40 - 140	30
Methoxychlor	ND	3.3	73	72	1.4	63			40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA			40 - 140	30
% DCBP	68	%	65	66	1.5	50			30 - 150	30
% DCBP (Confirmation)	55	%	63	64	1.6	53			30 - 150	30
% TCMX	72	%	71	74	4.1	56			30 - 150	30
% TCMX (Confirmation)	67	%	68	69	1.5	56			30 - 150	30

Comment:

This batch consists of BLK,LCS, LCSD and MS

QA/QC Batch 613084 (ug/L), QC Sample No: CK66975 10X (CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

Pesticides

4,4' -DDD	ND	0.25	94	92	2.2	99			40 - 140	20
4,4' -DDE	ND	0.25	92	89	3.3	98			40 - 140	20
4,4' -DDT	ND	0.25	82	78	5.0	85			40 - 140	20
a-BHC	ND	0.15	87	84	3.5	94			40 - 140	20
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20
Aldrin	ND	0.15	87	84	3.5	91			40 - 140	20
b-BHC	ND	0.15	89	87	2.3	95			40 - 140	20
Chlordane	ND	5.0	87	85	2.3	91			40 - 140	20
d-BHC	ND	0.50	69	65	6.0	70			40 - 140	20
Dieldrin	ND	0.15	91	89	2.2	97			40 - 140	20
Endosulfan I	ND	0.50	88	87	1.1	86			40 - 140	20
Endosulfan II	ND	0.50	90	90	0.0	99			40 - 140	20
Endosulfan sulfate	ND	0.50	85	83	2.4	89			40 - 140	20
Endrin	ND	0.50	79	72	9.3	84			40 - 140	20
Endrin aldehyde	ND	0.50	86	87	1.2	92			40 - 140	20
g-BHC	ND	0.15	90	87	3.4	96			40 - 140	20
Heptachlor	ND	0.50	83	79	4.9	86			40 - 140	20
Heptachlor epoxide	ND	0.50	89	86	3.4	94			40 - 140	20
Methoxychlor	ND	0.50	76	70	8.2	78			40 - 140	20
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20
% DCBP	79	%	80	77	3.8	75			30 - 150	20
% DCBP (Confirmation)	67	%	68	64	6.1	64			30 - 150	20
% TCMX	75	%	77	74	4.0	80			30 - 150	20
% TCMX (Confirmation)	73	%	75	72	4.1	78			30 - 150	20

QA/QC Batch 612300 (ug/kg), QC Sample No: CK66811 (CK66974, CK66975, CK66976, CK66977)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	77	82	6.3	71	78	9.4	40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	68	75	9.8	64	70	9.0	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	59	67	12.7	55	62	12.0	40 - 140	30
2,3,4,6-tetrachlorophenol	ND	230	88	89	1.1	77	88	13.3	30 - 130	30
2,4,5-Trichlorophenol	ND	230	88	93	5.5	80	91	12.9	40 - 140	30
2,4,6-Trichlorophenol	ND	130	85	89	4.6	77	87	12.2	30 - 130	30
2,4-Dichlorophenol	ND	130	79	86	8.5	74	82	10.3	30 - 130	30
2,4-Dimethylphenol	ND	230	82	90	9.3	79	89	11.9	30 - 130	30
2,4-Dinitrophenol	ND	230	22	13	51.4	71	75	5.5	30 - 130	30

1,1

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,4-Dinitrotoluene	ND	130	88	91	3.4	76	85	11.2	30 - 130	30	
2,6-Dinitrotoluene	ND	130	83	85	2.4	72	81	11.8	40 - 140	30	
2-Chloronaphthalene	ND	230	79	86	8.5	73	81	10.4	40 - 140	30	
2-Chlorophenol	ND	230	72	82	13.0	66	75	12.8	30 - 130	30	
2-Methylnaphthalene	ND	230	72	78	8.0	68	74	8.5	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	82	93	12.6	76	87	13.5	40 - 140	30	
2-Nitroaniline	ND	330	186	191	2.7	164	183	11.0	40 - 140	30	l,m
2-Nitrophenol	ND	230	86	96	11.0	81	90	10.5	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	76	85	11.2	68	80	16.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	79	82	3.7	67	86	24.8	40 - 140	30	
3-Nitroaniline	ND	330	101	102	1.0	78	93	17.5	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	33	24	31.6	80	81	1.2	30 - 130	30	l,r
4-Bromophenyl phenyl ether	ND	230	86	89	3.4	72	83	14.2	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	89	93	4.4	81	89	9.4	30 - 130	30	
4-Chloroaniline	ND	230	90	96	6.5	65	88	30.1	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	82	85	3.6	73	81	10.4	40 - 140	30	
4-Nitroaniline	ND	230	97	102	5.0	86	95	9.9	40 - 140	30	
4-Nitrophenol	ND	230	101	105	3.9	101	117	14.7	30 - 130	30	
Acenaphthene	ND	230	83	87	4.7	76	83	8.8	30 - 130	30	
Acenaphthylene	ND	130	72	77	6.7	66	72	8.7	40 - 140	30	
Acetophenone	ND	230	71	80	11.9	65	75	14.3	40 - 140	30	
Anthracene	ND	230	85	89	4.6	74	85	13.8	40 - 140	30	
Atrazine	ND	130	68	69	1.5	57	63	10.0	40 - 140	30	
Benz(a)anthracene	ND	230	80	83	3.7	73	77	5.3	40 - 140	30	
Benzaldehyde	ND	230	24	30	22.2	52	69	28.1	40 - 140	30	l
Benzo(a)pyrene	ND	130	78	80	2.5	79	72	9.3	40 - 140	30	
Benzo(b)fluoranthene	ND	160	82	84	2.4	96	81	16.9	40 - 140	30	
Benzo(ghi)perylene	ND	230	84	88	4.7	78	79	1.3	40 - 140	30	
Benzo(k)fluoranthene	ND	230	75	75	0.0	74	68	8.5	40 - 140	30	
Benzyl butyl phthalate	ND	230	93	95	2.1	79	89	11.9	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	75	83	10.1	70	79	12.1	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	66	99	40.0	59	92	43.7	40 - 140	30	r
Bis(2-ethylhexyl)phthalate	ND	230	90	93	3.3	76	85	11.2	40 - 140	30	
Caprolactam	ND	230	80	81	1.2	69	76	9.7	40 - 140	30	
Carbazole	ND	230	86	88	2.3	73	83	12.8	40 - 140	30	
Chrysene	ND	230	81	85	4.8	87	77	12.2	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	87	92	5.6	80	85	6.1	40 - 140	30	
Dibenzofuran	ND	230	79	83	4.9	72	80	10.5	40 - 140	30	
Diethyl phthalate	ND	230	87	90	3.4	76	86	12.3	40 - 140	30	
Dimethylphthalate	ND	230	84	87	3.5	73	81	10.4	40 - 140	30	
Di-n-butylphthalate	ND	670	93	94	1.1	80	88	9.5	40 - 140	30	
Di-n-octylphthalate	ND	230	89	94	5.5	76	84	10.0	40 - 140	30	
Fluoranthene	ND	230	85	86	1.2	74	84	12.7	40 - 140	30	
Fluorene	ND	230	86	90	4.5	78	86	9.8	40 - 140	30	
Hexachlorobenzene	ND	130	93	95	2.1	79	89	11.9	40 - 140	30	
Hexachlorobutadiene	ND	230	67	76	12.6	66	72	8.7	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	43	48	11.0	27	26	3.8	40 - 140	30	m
Hexachloroethane	ND	130	65	76	15.6	62	70	12.1	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	92	95	3.2	87	86	1.2	40 - 140	30	
Isophorone	ND	130	73	79	7.9	67	73	8.6	40 - 140	30	
Naphthalene	ND	230	72	80	10.5	69	77	11.0	40 - 140	30	
Nitrobenzene	ND	130	78	88	12.0	73	82	11.6	40 - 140	30	
N-Nitrosodimethylamine	ND	230	44	51	14.7	39	45	14.3	40 - 140	30	m

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
N-Nitrosodi-n-propylamine	ND	130	82	91	10.4	75	84	11.3	40 - 140	30
N-Nitrosodiphenylamine	ND	130	80	83	3.7	72	80	10.5	40 - 140	30
Pentachlorophenol	ND	230	74	75	1.3	84	97	14.4	30 - 130	30
Phenanthrene	ND	130	85	86	1.2	69	84	19.6	40 - 140	30
Phenol	ND	230	82	91	10.4	74	85	13.8	30 - 130	30
Pyrene	ND	230	87	89	2.3	88	88	0.0	30 - 130	30
% 2,4,6-Tribromophenol	100	%	111	111	0.0	95	108	12.8	30 - 130	30
% 2-Fluorobiphenyl	79	%	76	82	7.6	70	78	10.8	30 - 130	30
% 2-Fluorophenol	68	%	66	77	15.4	61	70	13.7	30 - 130	30
% Nitrobenzene-d5	77	%	75	85	12.5	69	81	16.0	30 - 130	30
% Phenol-d5	75	%	77	87	12.2	70	81	14.6	30 - 130	30
% Terphenyl-d14	79	%	81	85	4.8	69	81	16.0	30 - 130	30

Comment:

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

QA/QC Batch 612684 (ug/L), QC Sample No: CK66952 (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	57	56	1.8	63			40 - 140	20
2,4,5-Trichlorophenol	ND	17	92	101	9.3	94			40 - 140	20
2,4,6-Trichlorophenol	ND	17	90	93	3.3	89			30 - 130	20
2,4-Dinitrotoluene	ND	58	92	102	10.3	94			30 - 130	20
2-Methylphenol (o-cresol)	ND	17	91	92	1.1	87			40 - 140	20
3&4-Methylphenol (m&p-cresol)	ND	17	86	88	2.3	78			30 - 130	20
Hexachlorobenzene	ND	58	95	104	9.0	95			40 - 140	20
Hexachlorobutadiene	ND	58	64	60	6.5	76			40 - 140	20
Hexachloroethane	ND	58	61	58	5.0	70			40 - 140	20
Nitrobenzene	ND	58	88	101	13.8	92			40 - 140	20
Pentachlorophenol	ND	58	83	93	11.4	77			30 - 130	20
Pyridine	ND	83	87	59	38.4	58			40 - 140	20
% 2,4,6-Tribromophenol	115	%	116	120	3.4	112			15 - 110	20
% 2-Fluorobiphenyl	81	%	80	89	10.7	86			30 - 130	20
% 2-Fluorophenol	72	%	72	66	8.7	66			15 - 110	20
% Nitrobenzene-d5	91	%	86	100	15.1	86			30 - 130	20
% Phenol-d5	68	%	74	69	7.0	63			15 - 110	20
% Terphenyl-d14	94	%	94	107	12.9	94			30 - 130	20

Comment:

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

QA/QC Batch 612260 (ug/kg), QC Sample No: CK66959 (CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	60	66	9.5	69	53	26.2	40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	55	60	8.7	64	51	22.6	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	44	48	8.7	55	41	29.2	40 - 140	30
2,3,4,6-tetrachlorophenol	ND	230	65	71	8.8	76	59	25.2	30 - 130	30
2,4,5-Trichlorophenol	ND	230	69	81	16.0	84	65	25.5	40 - 140	30
2,4,6-Trichlorophenol	ND	130	73	84	14.0	83	65	24.3	30 - 130	30
2,4-Dichlorophenol	ND	130	69	75	8.3	78	62	22.9	30 - 130	30
2,4-Dimethylphenol	ND	230	73	80	9.2	71	58	20.2	30 - 130	30
2,4-Dinitrophenol	ND	230	<10	<10	NC	32	20	46.2	30 - 130	30
2,4-Dinitrotoluene	ND	130	74	84	12.7	79	64	21.0	30 - 130	30

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,6-Dinitrotoluene	ND	130	70	80	13.3	78	62	22.9	40 - 140	30	
2-Chloronaphthalene	ND	230	64	70	9.0	75	57	27.3	40 - 140	30	
2-Chlorophenol	ND	230	59	65	9.7	69	51	30.0	30 - 130	30	
2-Methylnaphthalene	ND	230	58	65	11.4	69	54	24.4	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	63	71	11.9	72	57	23.3	40 - 140	30	
2-Nitroaniline	ND	330	104	122	15.9	105	88	17.6	40 - 140	30	
2-Nitrophenol	ND	230	63	72	13.3	75	56	29.0	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	61	66	7.9	67	52	25.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	77	94	19.9	78	67	15.2	40 - 140	30	
3-Nitroaniline	ND	330	85	97	13.2	87	71	20.3	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	<10	<10	NC	60	36	50.0	30 - 130	30	l,r
4-Bromophenyl phenyl ether	ND	230	70	80	13.3	78	61	24.5	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	76	84	10.0	82	68	18.7	30 - 130	30	
4-Chloroaniline	ND	230	67	72	7.2	72	58	21.5	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	65	74	12.9	75	58	25.6	40 - 140	30	
4-Nitroaniline	ND	230	75	83	10.1	83	67	21.3	40 - 140	30	
4-Nitrophenol	ND	230	62	63	1.6	82	62	27.8	30 - 130	30	
Acenaphthene	ND	230	68	74	8.5	79	61	25.7	30 - 130	30	
Acenaphthylene	ND	130	60	65	8.0	66	52	23.7	40 - 140	30	
Acetophenone	ND	230	52	58	10.9	65	48	30.1	40 - 140	30	
Anthracene	ND	230	71	84	16.8	80	63	23.8	40 - 140	30	
Atrazine	ND	130	55	64	15.1	62	49	23.4	40 - 140	30	
Benz(a)anthracene	ND	230	72	88	20.0	80	64	22.2	40 - 140	30	
Benzaldehyde	ND	230	25	21	17.4	17	11	42.9	40 - 140	30	l,m,r
Benzo(a)pyrene	ND	130	71	84	16.8	76	62	20.3	40 - 140	30	
Benzo(b)fluoranthene	ND	160	73	83	12.8	78	68	13.7	40 - 140	30	
Benzo(ghi)perylene	ND	230	77	92	17.8	74	56	27.7	40 - 140	30	
Benzo(k)fluoranthene	ND	230	68	81	17.4	77	60	24.8	40 - 140	30	
Benzyl butyl phthalate	ND	230	74	88	17.3	83	67	21.3	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	62	68	9.2	72	54	28.6	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	46	50	8.3	59	43	31.4	40 - 140	30	r
Bis(2-ethylhexyl)phthalate	ND	230	73	88	18.6	80	65	20.7	40 - 140	30	
Caprolactam	ND	230	72	80	10.5	73	63	14.7	40 - 140	30	
Carbazole	ND	230	72	86	17.7	80	63	23.8	40 - 140	30	
Chrysene	ND	230	75	89	17.1	83	65	24.3	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	80	95	17.1	83	60	32.2	40 - 140	30	r
Dibenzofuran	ND	230	65	72	10.2	74	59	22.6	40 - 140	30	
Diethyl phthalate	ND	230	72	81	11.8	76	62	20.3	40 - 140	30	
Dimethylphthalate	ND	230	71	81	13.2	76	62	20.3	40 - 140	30	
Di-n-butylphthalate	ND	670	72	85	16.6	80	64	22.2	40 - 140	30	
Di-n-octylphthalate	ND	230	76	92	19.0	80	64	22.2	40 - 140	30	
Fluoranthene	ND	230	69	82	17.2	78	61	24.5	40 - 140	30	
Fluorene	ND	230	68	77	12.4	78	60	26.1	40 - 140	30	
Hexachlorobenzene	ND	130	72	82	13.0	80	65	20.7	40 - 140	30	
Hexachlorobutadiene	ND	230	50	57	13.1	64	47	30.6	40 - 140	30	r
Hexachlorocyclopentadiene	ND	230	39	44	12.0	46	27	52.1	40 - 140	30	l,m,r
Hexachloroethane	ND	130	41	45	9.3	56	40	33.3	40 - 140	30	r
Indeno(1,2,3-cd)pyrene	ND	230	82	98	17.8	82	62	27.8	40 - 140	30	
Isophorone	ND	130	56	63	11.8	65	50	26.1	40 - 140	30	
Naphthalene	ND	230	53	61	14.0	67	50	29.1	40 - 140	30	
Nitrobenzene	ND	130	55	62	12.0	68	50	30.5	40 - 140	30	
N-Nitrosodimethylamine	ND	230	40	44	9.5	55	37	39.1	40 - 140	30	m,r
N-Nitrosodi-n-propylamine	ND	130	57	62	8.4	68	50	30.5	40 - 140	30	

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
N-Nitrosodiphenylamine	ND	130	68	78	13.7	76	59	25.2	40 - 140	30	
Pentachlorophenol	ND	230	28	33	16.4	88	46	62.7	30 - 130	30	l,r
Phenanthrene	ND	130	70	83	17.0	82	64	24.7	40 - 140	30	
Phenol	ND	230	63	70	10.5	75	54	32.6	30 - 130	30	r
Pyrene	ND	230	69	81	16.0	78	61	24.5	30 - 130	30	
% 2,4,6-Tribromophenol	93	%	79	94	17.3	92	70	27.2	30 - 130	30	
% 2-Fluorobiphenyl	70	%	59	65	9.7	70	55	24.0	30 - 130	30	
% 2-Fluorophenol	69	%	52	60	14.3	66	46	35.7	30 - 130	30	r
% Nitrobenzene-d5	62	%	52	56	7.4	65	48	30.1	30 - 130	30	
% Phenol-d5	71	%	59	66	11.2	73	53	31.7	30 - 130	30	r
% Terphenyl-d14	76	%	65	77	16.9	76	56	30.3	30 - 130	30	

Comment:

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

QA/QC Batch 613083 (ug/L), QC Sample No: CK66972 (CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	78	74	5.3	76			40 - 140	20	
2,4,5-Trichlorophenol	ND	17	95	89	6.5	92			40 - 140	20	
2,4,6-Trichlorophenol	ND	17	98	91	7.4	93			30 - 130	20	
2,4-Dinitrotoluene	ND	58	98	91	7.4	96			30 - 130	20	
2-Methylphenol (o-cresol)	ND	17	100	97	3.0	101			40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	17	99	97	2.0	103			30 - 130	20	
Hexachlorobenzene	ND	58	92	91	1.1	95			40 - 140	20	
Hexachlorobutadiene	ND	58	82	75	8.9	78			40 - 140	20	
Hexachloroethane	ND	58	77	72	6.7	73			40 - 140	20	
Nitrobenzene	ND	58	98	94	4.2	99			40 - 140	20	
Pentachlorophenol	ND	58	97	86	12.0	95			30 - 130	20	
Pyridine	ND	83	65	50	26.1	71			40 - 140	20	r
% 2,4,6-Tribromophenol	93	%	106	104	1.9	109			15 - 110	20	
% 2-Fluorobiphenyl	79	%	88	84	4.7	87			30 - 130	20	
% 2-Fluorophenol	71	%	73	70	4.2	72			15 - 110	20	
% Nitrobenzene-d5	81	%	90	88	2.2	94			30 - 130	20	
% Phenol-d5	67	%	71	71	0.0	74			15 - 110	20	
% Terphenyl-d14	88	%	101	95	6.1	98			30 - 130	20	

Comment:

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

QA/QC Batch 612595 (ug/L), QC Sample No: CK66957 (CK66962 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	97	96	1.0	103	109	5.7	70 - 130	30	
1,2-Dichloroethane	ND	0.60	104	102	1.9	105	111	5.6	70 - 130	30	
Benzene	ND	0.70	100	98	2.0	103	109	5.7	70 - 130	30	
Carbon tetrachloride	ND	5.0	118	114	3.4	122	129	5.6	70 - 130	30	
Chlorobenzene	ND	1.0	103	102	1.0	105	111	5.6	70 - 130	30	
Chloroform	ND	5.0	102	101	1.0	106	112	5.5	70 - 130	30	
Methyl ethyl ketone	ND	5.0	101	104	2.9	99	106	6.8	70 - 130	30	
Tetrachloroethene	ND	1.0	103	103	0.0	107	110	2.8	70 - 130	30	
Trichloroethene	ND	5.0	103	100	3.0	107	113	5.5	70 - 130	30	
Vinyl chloride	ND	5.0	98	100	2.0	102	110	7.5	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	95	%	102	104	1.9	104	104	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Dibromofluoromethane	98	%	101	101	0.0	104	100	3.9	70 - 130	30
% Toluene-d8	98	%	100	100	0.0	100	99	1.0	70 - 130	30

Comment:

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

QA/QC Batch 612438 (ug/kg), QC Sample No: CK66961 (CK66962, CK66964, CK66965, CK66966, CK66967, CK66968)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	101	112	10.3				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	106	103	2.9				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	103	99	4.0				70 - 130	30
1,1-Dichloroethane	ND	5.0	93	96	3.2				70 - 130	30
1,1-Dichloroethene	ND	5.0	79	89	11.9				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	120	117	2.5				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	120	117	2.5				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	118	109	7.9				70 - 130	30
1,2-Dibromoethane	ND	5.0	112	111	0.9				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	108	108	0.0				70 - 130	30
1,2-Dichloroethane	ND	5.0	113	112	0.9				70 - 130	30
1,2-Dichloropropane	ND	5.0	110	110	0.0				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	110	110	0.0				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	106	108	1.9				70 - 130	30
1,4-dioxane	ND	100	107	119	10.6				70 - 130	30
2-Hexanone	ND	25	111	103	7.5				70 - 130	30
4-Methyl-2-pentanone	ND	25	112	102	9.3				70 - 130	30
Acetone	ND	10	59	61	3.3				70 - 130	30
Benzene	ND	1.0	104	104	0.0				70 - 130	30
Bromochloromethane	ND	5.0	97	105	7.9				70 - 130	30
Bromodichloromethane	ND	5.0	112	110	1.8				70 - 130	30
Bromoform	ND	5.0	117	116	0.9				70 - 130	30
Bromomethane	ND	5.0	65	72	10.2				70 - 130	30
Carbon Disulfide	ND	5.0	77	83	7.5				70 - 130	30
Carbon tetrachloride	ND	5.0	105	114	8.2				70 - 130	30
Chlorobenzene	ND	5.0	103	104	1.0				70 - 130	30
Chloroethane	ND	5.0	76	86	12.3				70 - 130	30
Chloroform	ND	5.0	99	108	8.7				70 - 130	30
Chloromethane	ND	5.0	100	105	4.9				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	99	109	9.6				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	109	109	0.0				70 - 130	30
Cyclohexane	ND	5.0	99	108	8.7				70 - 130	30
Dibromochloromethane	ND	3.0	113	114	0.9				70 - 130	30
Dichlorodifluoromethane	ND	5.0	104	110	5.6				70 - 130	30
Ethylbenzene	ND	1.0	103	106	2.9				70 - 130	30
Isopropylbenzene	ND	1.0	108	112	3.6				70 - 130	30
m&p-Xylene	ND	2.0	102	105	2.9				70 - 130	30
Methyl ethyl ketone	ND	5.0	96	94	2.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	85	89	4.6				70 - 130	30
Methylacetate	ND	5.0	79	81	2.5				70 - 130	30
Methylcyclohexane	ND	5.0	110	112	1.8				70 - 130	30
Methylene chloride	ND	5.0	58	65	11.4				70 - 130	30
o-Xylene	ND	2.0	102	106	3.8				70 - 130	30
Styrene	ND	5.0	107	109	1.9				70 - 130	30
Tetrachloroethene	ND	5.0	114	114	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Toluene	ND	1.0	103	103	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	84	91	8.0				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	111	110	0.9				70 - 130	30
Trichloroethene	ND	5.0	101	103	2.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	92	101	9.3				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	80	87	8.4				70 - 130	30
Vinyl chloride	ND	5.0	92	100	8.3				70 - 130	30
% 1,2-dichlorobenzene-d4	95	%	102	100	2.0				70 - 130	30
% Bromofluorobenzene	103	%	104	104	0.0				70 - 130	30
% Dibromofluoromethane	104	%	103	112	8.4				70 - 130	30
% Toluene-d8	95	%	100	100	0.0				70 - 130	30

Comment:

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

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

QA/QC Batch 612788 (ug/L), QC Sample No: CK66970 (CK66963 (10X) , CK66964 (10X) , CK66965 (10X) , CK66966 (10X) , CK66967 (10X) , CK66968 (10X) , CK66969 (10X) , CK66970 (10X) , CK66971 (10X) , CK66972 (10X) , CK66973 (10X) , CK66974 (10X) , CK66975 (10X) , CK66976 (10X) , CK66977 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	95	94	1.1	125	119	4.9	70 - 130	30
1,2-Dichloroethane	ND	0.60	103	101	2.0	120	117	2.5	70 - 130	30
Benzene	ND	0.70	99	98	1.0	127	122	4.0	70 - 130	30
Carbon tetrachloride	ND	5.0	111	112	0.9	128	129	0.8	70 - 130	30
Chlorobenzene	ND	1.0	101	101	0.0	120	116	3.4	70 - 130	30
Chloroform	ND	5.0	99	100	1.0	126	120	4.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	99	95	4.1	118	109	7.9	70 - 130	30
Tetrachloroethene	ND	1.0	102	101	1.0	117	114	2.6	70 - 130	30
Trichloroethene	ND	5.0	101	102	1.0	126	122	3.2	70 - 130	30
Vinyl chloride	ND	5.0	93	96	3.2	138	133	3.7	70 - 130	30 m
% 1,2-dichlorobenzene-d4	99	%	99	98	1.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	97	%	102	104	1.9	107	104	2.8	70 - 130	30
% Dibromofluoromethane	102	%	100	99	1.0	100	99	1.0	70 - 130	30
% Toluene-d8	99	%	102	100	2.0	101	102	1.0	70 - 130	30

Comment:

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

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

QA/QC Batch 612441 (ug/kg), QC Sample No: CK68106 (CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977, CK67069)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	104	103	1.0	99	96	3.1	70 - 130	30
1,1,1,2-Tetrachloroethane	ND	3.0	102	102	0.0	81	80	1.2	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	94	95	1.1	83	80	3.7	70 - 130	30
1,1-Dichloroethane	ND	5.0	106	104	1.9	87	98	11.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	107	106	0.9	106	100	5.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	101	101	0.0	37	35	5.6	70 - 130	30 m
1,2,4-Trichlorobenzene	ND	5.0	98	98	0.0	41	38	7.6	70 - 130	30 m
1,2-Dibromo-3-chloropropane	ND	5.0	118	118	0.0	80	81	1.2	70 - 130	30
1,2-Dibromoethane	ND	5.0	103	104	1.0	89	85	4.6	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	102	104	1.9	64	62	3.2	70 - 130	30 m
1,2-Dichloroethane	ND	5.0	100	100	0.0	89	88	1.1	70 - 130	30

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
1,2-Dichloropropane	ND	5.0	96	97	1.0	88	86	2.3	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	98	99	1.0	65	62	4.7	70 - 130	30	m
1,4-Dichlorobenzene	ND	5.0	101	103	2.0	66	64	3.1	70 - 130	30	m
1,4-dioxane	ND	100	112	117	4.4	101	95	6.1	70 - 130	30	
2-Hexanone	ND	25	96	95	1.0	76	72	5.4	70 - 130	30	
4-Methyl-2-pentanone	ND	25	98	97	1.0	85	80	6.1	70 - 130	30	
Acetone	ND	10	92	88	4.4	71	69	2.9	70 - 130	30	m
Benzene	ND	1.0	96	97	1.0	91	89	2.2	70 - 130	30	
Bromochloromethane	ND	5.0	93	94	1.1	85	83	2.4	70 - 130	30	
Bromodichloromethane	ND	5.0	102	103	1.0	91	89	2.2	70 - 130	30	
Bromoform	ND	5.0	116	116	0.0	89	87	2.3	70 - 130	30	
Bromomethane	ND	5.0	106	119	11.6	112	97	14.4	70 - 130	30	
Carbon Disulfide	ND	5.0	99	99	0.0	90	90	0.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	111	110	0.9	102	101	1.0	70 - 130	30	
Chlorobenzene	ND	5.0	103	104	1.0	87	84	3.5	70 - 130	30	
Chloroethane	ND	5.0	110	110	0.0	110	107	2.8	70 - 130	30	
Chloroform	ND	5.0	95	94	1.1	88	86	2.3	70 - 130	30	
Chloromethane	ND	5.0	101	98	3.0	97	93	4.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	96	101	5.1	94	87	7.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	100	101	1.0	87	86	1.2	70 - 130	30	
Cyclohexane	ND	5.0	98	97	1.0	94	87	7.7	70 - 130	30	
Dibromochloromethane	ND	3.0	113	112	0.9	92	92	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	122	122	0.0	121	117	3.4	70 - 130	30	
Ethylbenzene	ND	1.0	106	104	1.9	91	89	2.2	70 - 130	30	
Isopropylbenzene	ND	1.0	107	109	1.9	90	87	3.4	70 - 130	30	
m&p-Xylene	ND	2.0	101	102	1.0	87	84	3.5	70 - 130	30	
Methyl ethyl ketone	ND	5.0	81	81	0.0	72	64	11.8	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	1.0	98	97	1.0	90	87	3.4	70 - 130	30	
Methylacetate	ND	5.0	107	104	2.8	119	114	4.3	70 - 130	30	
Methylcyclohexane	ND	5.0	102	102	0.0	92	87	5.6	70 - 130	30	
Methylene chloride	ND	5.0	95	94	1.1	87	84	3.5	70 - 130	30	
o-Xylene	ND	2.0	101	101	0.0	85	82	3.6	70 - 130	30	
Styrene	ND	5.0	100	101	1.0	78	70	10.8	70 - 130	30	
Tetrachloroethene	ND	5.0	97	98	1.0	89	85	4.6	70 - 130	30	
Toluene	ND	1.0	98	98	0.0	90	88	2.2	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	104	104	0.0	102	97	5.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	104	105	1.0	85	85	0.0	70 - 130	30	
Trichloroethene	ND	5.0	98	99	1.0	91	89	2.2	70 - 130	30	
Trichlorofluoromethane	ND	5.0	112	111	0.9	114	108	5.4	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	98	99	1.0	98	93	5.2	70 - 130	30	
Vinyl chloride	ND	5.0	113	112	0.9	109	106	2.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	93	%	99	100	1.0	98	99	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	100	99	1.0	99	98	1.0	70 - 130	30	
% Dibromofluoromethane	98	%	97	96	1.0	93	94	1.1	70 - 130	30	
% Toluene-d8	93	%	99	99	0.0	100	99	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 612441H (ug/kg), QC Sample No: CK68106 50X (CK67070 (50X))

Volatiles - Soil (High Level)

1,1,1-Trichloroethane	ND	250	109	107	1.9	112	114	1.8	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	112	118	5.2	114	119	4.3	70 - 130	30

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,2-Trichloroethane	ND	250	106	107	0.9	105	108	2.8	70 - 130	30
1,1-Dichloroethane	ND	250	114	114	0.0	118	118	0.0	70 - 130	30
1,1-Dichloroethene	ND	250	108	109	0.9	116	116	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	120	122	1.7	117	116	0.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	120	121	0.8	113	112	0.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	126	131	3.9	123	127	3.2	70 - 130	30
1,2-Dibromoethane	ND	250	114	117	2.6	115	117	1.7	70 - 130	30
1,2-Dichlorobenzene	ND	250	120	120	0.0	119	119	0.0	70 - 130	30
1,2-Dichloroethane	ND	250	109	108	0.9	111	112	0.9	70 - 130	30
1,2-Dichloropropane	ND	250	107	105	1.9	106	107	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	250	115	114	0.9	112	113	0.9	70 - 130	30
1,4-Dichlorobenzene	ND	250	120	121	0.8	118	117	0.9	70 - 130	30
1,4-dioxane	ND	5000	134	130	3.0	126	133	5.4	70 - 130	30
2-Hexanone	ND	1300	100	108	7.7	104	110	5.6	70 - 130	30
4-Methyl-2-pentanone	ND	1300	103	109	5.7	108	112	3.6	70 - 130	30
Acetone	ND	500	76	83	8.8	89	93	4.4	70 - 130	30
Benzene	ND	250	108	107	0.9	109	111	1.8	70 - 130	30
Bromochloromethane	ND	250	102	104	1.9	104	106	1.9	70 - 130	30
Bromodichloromethane	ND	250	109	106	2.8	107	109	1.9	70 - 130	30
Bromoform	ND	250	116	116	0.0	112	117	4.4	70 - 130	30
Bromomethane	ND	250	89	90	1.1	84	99	16.4	70 - 130	30
Carbon Disulfide	ND	250	101	102	1.0	107	107	0.0	70 - 130	30
Carbon tetrachloride	ND	250	106	102	3.8	104	107	2.8	70 - 130	30
Chlorobenzene	ND	250	118	117	0.9	118	120	1.7	70 - 130	30
Chloroethane	ND	250	28	26	7.4	29	29	0.0	70 - 130	30
Chloroform	ND	250	101	101	0.0	105	105	0.0	70 - 130	30
Chloromethane	ND	250	113	111	1.8	116	114	1.7	70 - 130	30
cis-1,2-Dichloroethene	ND	250	103	109	5.7	110	112	1.8	70 - 130	30
cis-1,3-Dichloropropene	ND	250	108	106	1.9	103	106	2.9	70 - 130	30
Cyclohexane	ND	250	106	106	0.0	112	113	0.9	70 - 130	30
Dibromochloromethane	ND	150	116	116	0.0	112	118	5.2	70 - 130	30
Dichlorodifluoromethane	ND	250	133	131	1.5	140	141	0.7	70 - 130	30
Ethylbenzene	ND	250	119	119	0.0	120	121	0.8	70 - 130	30
Isopropylbenzene	ND	250	122	122	0.0	124	124	0.0	70 - 130	30
m&p-Xylene	ND	250	114	114	0.0	115	116	0.9	70 - 130	30
Methyl ethyl ketone	ND	250	88	96	8.7	93	104	11.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	101	106	4.8	106	109	2.8	70 - 130	30
Methylacetate	ND	250	107	116	8.1	121	123	1.6	70 - 130	30
Methylcyclohexane	ND	250	115	112	2.6	120	119	0.8	70 - 130	30
Methylene chloride	ND	250	98	100	2.0	101	103	2.0	70 - 130	30
o-Xylene	ND	250	113	114	0.9	114	115	0.9	70 - 130	30
Styrene	ND	250	114	113	0.9	112	115	2.6	70 - 130	30
Tetrachloroethene	ND	250	112	111	0.9	112	113	0.9	70 - 130	30
Toluene	ND	250	111	111	0.0	113	113	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	250	112	111	0.9	118	117	0.9	70 - 130	30
trans-1,3-Dichloropropene	ND	250	111	109	1.8	104	107	2.8	70 - 130	30
Trichloroethene	ND	250	111	110	0.9	111	113	1.8	70 - 130	30
Trichlorofluoromethane	ND	250	26	26	0.0	29	28	3.5	70 - 130	30
Trichlorotrifluoroethane	ND	250	101	99	2.0	107	111	3.7	70 - 130	30
Vinyl chloride	ND	250	123	122	0.8	129	130	0.8	70 - 130	30
% 1,2-dichlorobenzene-d4	93	%	99	100	1.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	97	%	98	97	1.0	98	99	1.0	70 - 130	30
% Dibromofluoromethane	97	%	91	92	1.1	91	95	4.3	70 - 130	30

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Toluene-d8	92	%	100	99	1.0	100	100	0.0	70 - 130	30

Comment:

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

QA/QC Batch 612613 (ug/kg), QC Sample No: CK68861 (CK66963)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	108	104	3.8	100	103	3.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	102	103	1.0	95	95	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	95	94	1.1	89	89	0.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	100	94	6.2	95	104	9.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	118	111	6.1	104	99	4.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	103	102	1.0	88	88	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	102	100	2.0	85	85	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	115	116	0.9	104	104	0.0	70 - 130	30
1,2-Dibromoethane	ND	5.0	102	102	0.0	95	95	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	104	106	1.9	95	97	2.1	70 - 130	30
1,2-Dichloroethane	ND	5.0	101	101	0.0	96	96	0.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	97	96	1.0	91	91	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	99	99	0.0	89	92	3.3	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	104	103	1.0	92	95	3.2	70 - 130	30
1,4-dioxane	ND	100	111	108	2.7	98	93	5.2	70 - 130	30
2-Hexanone	ND	25	93	92	1.1	86	84	2.4	70 - 130	30
4-Methyl-2-pentanone	ND	25	94	95	1.1	90	90	0.0	70 - 130	30
Acetone	ND	10	104	98	5.9	58	70	18.8	70 - 130	30
Benzene	ND	1.0	97	96	1.0	92	94	2.2	70 - 130	30
Bromochloromethane	ND	5.0	96	94	2.1	89	90	1.1	70 - 130	30
Bromodichloromethane	ND	5.0	103	104	1.0	97	98	1.0	70 - 130	30
Bromoform	ND	5.0	116	116	0.0	104	107	2.8	70 - 130	30
Bromomethane	ND	5.0	114	115	0.9	117	109	7.1	70 - 130	30
Carbon Disulfide	ND	5.0	110	102	7.5	96	91	5.3	70 - 130	30
Carbon tetrachloride	ND	5.0	118	110	7.0	103	109	5.7	70 - 130	30
Chlorobenzene	ND	5.0	102	103	1.0	97	98	1.0	70 - 130	30
Chloroethane	ND	5.0	130	119	8.8	103	106	2.9	70 - 130	30
Chloroform	ND	5.0	97	96	1.0	91	93	2.2	70 - 130	30
Chloromethane	ND	5.0	103	98	5.0	93	95	2.1	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	99	97	2.0	94	93	1.1	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	101	101	0.0	92	93	1.1	70 - 130	30
Cyclohexane	ND	5.0	100	97	3.0	95	96	1.0	70 - 130	30
Dibromochloromethane	ND	3.0	111	111	0.0	102	102	0.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	121	116	4.2	111	111	0.0	70 - 130	30
Ethylbenzene	ND	1.0	105	105	0.0	99	100	1.0	70 - 130	30
Isopropylbenzene	ND	1.0	111	109	1.8	101	105	3.9	70 - 130	30
m&p-Xylene	ND	2.0	101	101	0.0	95	97	2.1	70 - 130	30
Methyl ethyl ketone	ND	5.0	86	82	4.8	75	70	6.9	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	107	102	4.8	93	93	0.0	70 - 130	30
Methylacetate	ND	5.0	120	111	7.8	99	86	14.1	70 - 130	30
Methylcyclohexane	ND	5.0	105	102	2.9	100	103	3.0	70 - 130	30
Methylene chloride	ND	5.0	101	96	5.1	87	84	3.5	70 - 130	30
o-Xylene	ND	2.0	101	100	1.0	94	96	2.1	70 - 130	30
Styrene	ND	5.0	99	100	1.0	94	94	0.0	70 - 130	30
Tetrachloroethene	ND	5.0	100	98	2.0	94	96	2.1	70 - 130	30
Toluene	ND	1.0	100	99	1.0	94	95	1.1	70 - 130	30

m

QA/QC Data

SDG I.D.: GCK66962

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
trans-1,2-Dichloroethene	ND	5.0	116	109	6.2	101	98	3.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	105	105	0.0	95	96	1.0	70 - 130	30
Trichloroethene	ND	5.0	101	97	4.0	94	96	2.1	70 - 130	30
Trichlorofluoromethane	ND	5.0	125	117	6.6	110	108	1.8	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	107	102	4.8	96	92	4.3	70 - 130	30
Vinyl chloride	ND	5.0	118	113	4.3	106	111	4.6	70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	99	100	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	97	%	97	99	2.0	98	99	1.0	70 - 130	30
% Dibromofluoromethane	97	%	95	92	3.2	96	96	0.0	70 - 130	30
% Toluene-d8	93	%	99	100	1.0	99	99	0.0	70 - 130	30


Comment:

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

- l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
- m = This parameter is outside laboratory MS/MSD specified recovery limits.
- r = This parameter is outside laboratory RPD specified recovery limits.
- s = This parameter is outside laboratory Blank Surrogate 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
 February 23, 2022

Sample Criteria Exceedances Report

GCK66962 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66962	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	7.6	2.5	3.3	3.3	ug/Kg
CK66963	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.1	2.1	3.3	3.3	ug/Kg
CK66963	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.45	0.03	0.18	0.18	mg/Kg
CK66964	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	510	250	500	500	ug/Kg
CK66964	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	510	250	500	500	ug/Kg
CK66964	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	10	2.2	3.3	3.3	ug/Kg
CK66964	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.6	2.2	3.3	3.3	ug/Kg
CK66964	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.6	2.2	3.3	3.3	ug/Kg
CK66964	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.36	0.03	0.18	0.18	mg/Kg
CK66964	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	95.0	0.35	63	63	mg/Kg
CK66965	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	9.0	2.3	3.3	3.3	ug/Kg
CK66965	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	20	2.3	3.3	3.3	ug/Kg
CK66965	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.44	0.03	0.18	0.18	mg/Kg
CK66965	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	4260	4.0	1000	1000	mg/Kg
CK66965	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	4260	4.0	400	400	mg/Kg
CK66965	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	4260	4.0	63	63	mg/Kg
CK66966	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	23	2.2	3.3	3.3	ug/Kg
CK66966	\$PESTSM_NY	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	16	3.7	5	5	ug/Kg
CK66966	\$PESTSM_NY	a-Chlordane	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	120	18	94	94	ug/Kg
CK66966	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	13	2.2	3.3	3.3	ug/Kg
CK66966	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	38	2.2	3.3	3.3	ug/Kg
CK66967	AS-SM	Arsenic	NY / 375-6.8 Metals / Commercial	21.4	0.73	16	16	mg/Kg
CK66967	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	21.4	0.73	16	16	mg/Kg
CK66967	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	21.4	0.73	13	13	mg/Kg
CK66967	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	374	0.36	350	350	mg/Kg
CK66967	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	84.9	0.7	50	50	mg/kg
CK66967	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	2.61	0.14	0.81	0.81	mg/Kg
CK66967	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	2.61	0.14	0.18	0.18	mg/Kg
CK66967	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	2500	3.6	1000	1000	mg/Kg
CK66967	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	2500	3.6	400	400	mg/Kg
CK66967	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	2500	3.6	63	63	mg/Kg
CK66967	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	249	0.7	109	109	mg/Kg
CK66968	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	970	440	500	500	ug/Kg
CK66968	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	970	440	500	500	ug/Kg
CK66968	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.6	2.3	3.3	3.3	ug/Kg
CK66968	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.54	0.03	0.18	0.18	mg/Kg
CK66968	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	355	0.38	63	63	mg/Kg

Sample Criteria Exceedances Report

GCK66962 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66968	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	295	0.8	109	109	mg/Kg
CK66969	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1700	260	1000	1000	ug/Kg
CK66969	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	260	1000	1000	ug/Kg
CK66969	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1500	260	1000	1000	ug/Kg
CK66969	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1700	260	1000	1000	ug/Kg
CK66969	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	260	500	500	ug/Kg
CK66969	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	260	500	500	ug/Kg
CK66969	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	260	1000	1000	ug/Kg
CK66969	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	260	800	800	ug/Kg
CK66969	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1700	260	1000	1000	ug/Kg
CK66969	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	260	1000	1000	ug/Kg
CK66969	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	260	1000	1000	ug/Kg
CK66969	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.2	2.2	3.3	3.3	ug/Kg
CK66969	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	416	0.33	400	400	mg/Kg
CK66969	BA-SM	Barium	NY / 375-6.8 Metals / Residential Restricted	416	0.33	400	400	mg/Kg
CK66969	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	416	0.33	350	350	mg/Kg
CK66969	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.44	0.03	0.18	0.18	mg/Kg
CK66969	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	385	0.33	63	63	mg/Kg
CK66969	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	223	0.7	109	109	mg/Kg
CK66970	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	3300	270	1000	1000	ug/Kg
CK66970	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2600	270	1000	1000	ug/Kg
CK66970	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3100	270	1000	1000	ug/Kg
CK66970	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	270	500	500	ug/Kg
CK66970	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3300	270	1000	1000	ug/Kg
CK66970	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	460	190	330	330	ug/Kg
CK66970	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	270	500	500	ug/Kg
CK66970	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	460	190	330	330	ug/Kg
CK66970	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3100	270	1000	1000	ug/Kg
CK66970	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2200	270	800	800	ug/Kg
CK66970	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	270	1000	1000	ug/Kg
CK66970	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3100	270	1000	1000	ug/Kg
CK66970	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	270	1000	1000	ug/Kg
CK66970	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	67.2	0.8	50	50	mg/kg
CK66970	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.35	0.03	0.18	0.18	mg/Kg
CK66970	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	296	0.39	63	63	mg/Kg
CK66970	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	213	0.8	109	109	mg/Kg
CK66971	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1200	270	1000	1000	ug/Kg
CK66971	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	790	270	500	500	ug/Kg
CK66971	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	270	1000	1000	ug/Kg
CK66971	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	270	1000	1000	ug/Kg

Sample Criteria Exceedances Report

GCK66962 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66971	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	270	1000	1000	ug/Kg
CK66971	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	920	270	800	800	ug/Kg
CK66971	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	270	1000	1000	ug/Kg
CK66971	\$8270_TCLR	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
CK66971	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	790	270	500	500	ug/Kg
CK66971	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	24	2.3	3.3	3.3	ug/Kg
CK66971	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	12	2.3	3.3	3.3	ug/Kg
CK66971	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.77	0.03	0.18	0.18	mg/Kg
CK66971	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	215	0.37	63	63	mg/Kg
CK66971	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	116	0.7	109	109	mg/Kg
CK66972	\$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	54	50	50	50	ug/kg
CK66972	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1100	260	1000	1000	ug/Kg
CK66972	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	750	260	500	500	ug/Kg
CK66972	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	260	1000	1000	ug/Kg
CK66972	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	750	260	500	500	ug/Kg
CK66972	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	1000	1000	ug/Kg
CK66972	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.7	2.2	3.3	3.3	ug/Kg
CK66972	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	12	2.2	3.3	3.3	ug/Kg
CK66972	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	21	2.2	3.3	3.3	ug/Kg
CK66972	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	54.4	0.7	50	50	mg/kg
CK66972	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.54	0.03	0.18	0.18	mg/Kg
CK66972	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	390	0.37	63	63	mg/Kg
CK66972	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	209	0.7	109	109	mg/Kg
CK66973	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	790	190	560	560	ug/Kg
CK66973	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	4300	260	1000	1000	ug/Kg
CK66973	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4300	260	1000	1000	ug/Kg
CK66973	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2900	260	500	500	ug/Kg
CK66973	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	260	1000	1000	ug/Kg
CK66973	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	790	190	330	330	ug/Kg
CK66973	\$8270_TCLR	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2400	260	1000	1000	ug/Kg
CK66973	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2900	260	500	500	ug/Kg
CK66973	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	790	190	330	330	ug/Kg
CK66973	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	260	800	800	ug/Kg
CK66973	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4300	260	1000	1000	ug/Kg
CK66973	\$8270_TCLR	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	260	1000	1000	ug/Kg
CK66973	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CK66973	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	260	1000	1000	ug/Kg
CK66973	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	30.1	0.37	30		mg/Kg
CK66973	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	57.8	0.7	50	50	mg/kg
CK66973	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	367	0.37	63	63	mg/Kg

Wednesday, February 23, 2022

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCK66962 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66974	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	2100	270	1000	1000	ug/Kg
CK66974	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2500	270	1000	1000	ug/Kg
CK66974	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	270	500	500	ug/Kg
CK66974	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2100	270	1000	1000	ug/Kg
CK66974	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1800	270	1000	1000	ug/Kg
CK66974	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1800	270	1000	1000	ug/Kg
CK66974	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	500	500	ug/Kg
CK66974	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2100	270	1000	1000	ug/Kg
CK66974	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	270	1000	1000	ug/Kg
CK66974	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	270	1000	1000	ug/Kg
CK66974	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	800	800	ug/Kg
CK66974	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.40	0.03	0.18	0.18	mg/Kg
CK66974	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	170	0.36	63	63	mg/Kg
CK66974	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	381	0.7	109	109	mg/Kg
CK66975	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	56.8	0.8	50	50	mg/kg
CK66975	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.21	0.03	0.18	0.18	mg/Kg
CK66976	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	11	2.4	3.3	3.3	ug/Kg
CK66976	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.4	2.4	3.3	3.3	ug/Kg
CK66976	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.1	2.4	3.3	3.3	ug/Kg
CK66976	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.34	0.03	0.18	0.18	mg/Kg
CK66976	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	190	0.36	63	63	mg/Kg
CK66977	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	7.8	2.2	3.3	3.3	ug/Kg
CK66977	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.71	0.03	0.18	0.18	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.



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Analysis Comments

February 23, 2022

SDG I.D.: GCK66962

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

EPH NJ Narration

AU-FID22 02/17/22-1: CK66967, CK66968, CK66969, CK66970, CK66971

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66970, CK66971

Preceding CC 217A053 - None.

Succeeding CC 217A059 - o-COD (surr) 26%L (25%)

ETPH Narration

AU-FID11 02/16/22-1: CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66964, CK66966, CK66968, CK66969, CK66970, CK66975

Preceding CC 216A040 - None.

Succeeding CC 216A048 - DRO (C10-C28) 38%H (30%)

The ETPH method allows for one discrimination check standard outlier.

GRO Narration

PIDFID 02/17/22-1: CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples:

Preceding CC 0217_01.D-RPTGRO - None.

Succeeding CC - None.

Herbicide Narration

AU-ECD12 02/15/22-1: CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66965, CK66966, CK66967

Preceding CC 215B130 - 2,4-DB (12) 16%H (15%), Dinoseb 17%L (15%)

Succeeding CC 215B143 - 2,4-DB (12) 16%H (15%), Dinoseb 21%L (15%)

Samples: CK66968, CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977

Preceding CC 215B143 - 2,4-DB (12) 16%H (15%), Dinoseb 21%L (15%)

Succeeding CC 215B156 - 2,4-D (8) 20%H (15%), 2,4-DB (12) 36%H (15%), Dichloroprop (7) 28%H (15%)

Samples: CK66962, CK66963, CK66964

Preceding CC 215B156 - 2,4-D (8) 20%H (15%), 2,4-DB (12) 36%H (15%), Dichloroprop (7) 28%H (15%)

Succeeding CC 215B167 - 2,4,5-T (11) 33%H (15%), 2,4,5-TP (10) 38%H (15%), 2,4-D (8) 32%H (15%), 2,4-DB (12) 55%H (15%),

Dichloroprop (7) 45%H (15%), Dinoseb 20%H (15%)

PEST Narration

AU-ECD35 02/16/22-1: CK66963, CK66967, CK66968, CK66969, CK66973, CK66975, CK66977



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The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66963, CK66969, CK66973, CK66975, CK66977

Preceding CC 216B020 - None.

Succeeding CC 216B033 - Methoxychlor 22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CK66967, CK66968

Preceding CC 216B033 - Methoxychlor 22%L (20%)

Succeeding CC 216B048 - Methoxychlor 24%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 02/16/22-1: CK66965, CK66971, CK66974

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66974

Preceding CC 216B020 - Endrin aldehyde 21%L (20%)

Succeeding CC 216B033 - Methoxychlor 22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CK66965, CK66971

Preceding CC 216B033 - Methoxychlor 22%L (20%)

Succeeding CC 216B047 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 02/17/22-1: CK66962, CK66970, CK66972, CK66976

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66962, CK66970, CK66972, CK66976

Preceding CC 217B004 - b-BHC 27%L (20%)

Succeeding CC 217B024 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 02/21/22-1: CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971

Preceding CC 221B004 - b-BHC 21%L (20%)

Succeeding CC 221B029 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

SVOA Narration

CHEM07 02/15/22-1: CK66974, CK66975, CK66976, CK66977



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Analysis Comments

February 23, 2022

SDG I.D.: GCK66962

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.047 (0.05), 2-Nitrophenol 0.064 (0.1), Hexachlorobenzene 0.069 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: % 2,4,6-Tribromophenol 0.047 (0.05)

The following Continuing Calibration compounds did not meet % deviation criteria: % 2,4,6-Tribromophenol 32%H (30%)

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

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.075 (0.1), Hexachlorobenzene 0.074 (0.1)

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

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

CHEM07 02/18/22-1: CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.047 (0.05), Hexachlorobenzene 0.069 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: % 2,4,6-Tribromophenol 0.047 (0.05)

The following Continuing Calibration compounds did not meet % deviation criteria: % 2,4,6-Tribromophenol 38%H (30%)

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

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.081 (0.1)

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

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

CHEM22 02/15/22-2: CK66962, CK66963, CK66964, CK66965, CK66966, CK66967, CK66968, CK66969, CK66970, CK66971, CK66972, CK66973

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.083 (0.1)

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

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.087 (0.1)

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

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

CHEM28 02/21/22-2: CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.079 (0.1)

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

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.081 (0.1)

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

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



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Analysis Comments

February 23, 2022

SDG I.D.: GCK66962

VOA Narration

CHEM14 02/15/22-2: CK66969, CK66970, CK66971, CK66972, CK66973, CK66974, CK66975, CK66976, CK66977, CK67069, CK67070

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 26% (20%), Acetone 29% (20%), Methylene chloride 28% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.095 (0.1), Bromoform 0.086 (0.1)

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

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

CHEM14 02/16/22-2: CK66963

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 26% (20%), Acetone 29% (20%), Methylene chloride 28% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.095 (0.1), Bromoform 0.086 (0.1)

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

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

CHEM18 02/15/22-1: CK66962, CK66964, CK66965, CK66966, CK66967, CK66968

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 35% (20%), Bromoform 22% (20%), Methylene chloride 38% (20%)

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

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 40%L (30%), Methylene chloride 36%L (30%)

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

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



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



NY Temperature Narration

February 23, 2022

SDG I.D.: GCK66962

The samples in this delivery group were received at 1.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



NY/NJ/PA CHAIN OF CUSTODY RECORD

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

Customer: AES
 Address: 42 West Avenue
Patchogue, NY 11772

Project: EAST SIDE COASTAL RESILIENCY Project P.O.: 0897
 Report to: AES
 Invoice to: AES
 QUOTE #: AE090921BA

Coolant: Yes No
 Cooler: IPK ICE
 Temp: 8 C Pg 2 of 2

Contact Options:

Phone:
 Fax: pendyenveng@phoenixlabs.com
 Email: empendergast@aol.com

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [Signature] Date: 2/11/22

Client Sample - Information - Identification
 Matrix Code: SW = Ground Water SE = Surface Water WM = Waste Water
RW = Raw Water SL = Sludge S = Soil SD = Solid W = Wipe
OIL = Oil B = Bulk L = Liquid

PHOENIX USE ONLY	SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
	00902	BH33	S	2.11.22	7:50	TAL/TCL+30
	00903	BH34			8:00	FILL TCLP
	00904	BH35			8:15	EXHS
	00905	BH36			8:20	TPH DRO/GRO
	00906	BH37			8:30	
	00907	BH38			8:50	
	00908	BH39			8:50	
	00909	BH40			9:10	
		BH41				
	00970	BH42			10:00	
	00971	BH43			10:15	

Relinquished by: [Signature] Date: 2.11.22
 Accepted by: [Signature] Date: 2.14.22
[Signature] Date: 15.54

Comments, Special Requirements or Regulations:

completion of locations in Reach E

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 APPLIES

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

NY
 TOGS GW
 CP-51 SOIL
 375SCO Unrestricted Soil
 375SCO Residential Soil
 375SCO Residential Restricted Soil
 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



NY/NJ/PA CHAIN OF CUSTODY RECORD

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

Customer: AES
Address: 42 WEST AVENUE
Patchogue, NY 11772

Project: EAST SIDE COASTAL RESILIENCE Project P.O.: 0897
Report to: AES
Invoice to: AES
QUOTE #: AE090921BA

Coolant: Yes No
Coolant: IPK CE
Temp: °C Pg 2 of 2

Contact Options:
Phone:
Fax:
Email: pendyenveng@phoenixlabs.net
Email: empendengast@aol.com

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: *R. J. [Signature]* Date: 2/11/22

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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
00972	BH44	S	2.11.22	10:30	X
00973	BH45			10:55	X
00974	BH46			11:00	X
00975	BH47			11:15	X
00976	BH48			2:15	X
00977	BH49			11:45	X
07069	TB LL				
07070	TB HL				

GL Amber 8 oz W/3P/04	
GL 50ml Vial (1) Methanol (1) H2O	
GL 50ml container (3) oz	
GL Amber 100ml Vial (4) oz VDC92	
GL Amber 250ml (1) 150ml (1) 100ml	
PL AS is (1) 250ml (1) 500ml (1) 1000ml	
PL H2SO4 (1) 250ml (1) HCl	
PL MAOH 250ml	
PL HNO3 250ml	
Bacteria Bottle w/10	

Turnaround:	Time:	Date:	Accepted by:
<input type="checkbox"/> 1 Day*		2.14.22	<i>[Signature]</i>
<input type="checkbox"/> 2 Days*			
<input type="checkbox"/> 3 Days*		2.14.22	<i>[Signature]</i>
<input checked="" type="checkbox"/> 5 Days		15:54	
<input type="checkbox"/> 10 Days			
<input type="checkbox"/> Other			

Relinquished by: *[Signature]* Accepted by: *[Signature]* Date: 2.14.22 11:22

Comments, Special Requirements or Regulations:
 Phoenix Std Report EQUIS
 Excel NJ Hazsite EDD
 PDF NY EZ EDD (ASP)
 GIS/Key Other

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

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

Res. Criteria TOGS GW PA
Non-Res. Criteria CP-51 SOIL Clean Fill Limits
Impact to GW Soil 375SCO PA-GW
Cleanup Criteria Unrestricted Soil Reg Fill Limits
Impact to GW soil screen 375SCO PA Soil Restricted
Criteria Residential Soil PA Soil non-restricted
 Restricted Soil 375SCO
 GW Criteria Commercial Soil
 375SCO Industrial Soil
 Subpart 5 DW

State Samples Collected? NY



Wednesday, February 23, 2022

Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Project ID: EAST SIDE COASTAL RESILIENCY
SDG ID: GCK66950
Sample ID#s: CK66950 - CK66961, CK67067 - CK67068

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

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

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

Sincerely yours,

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

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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



SDG Comments

February 23, 2022

SDG I.D.: GCK66950

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

CK66950 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66951 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66952 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66953 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66954 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66955 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66957 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66958 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66959 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66960 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

CK66961 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.



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



Sample Id Cross Reference

February 23, 2022

SDG I.D.: GCK66950

Project ID: EAST SIDE COASTAL RESILIENCY

Client Id	Lab Id	Matrix
BH50	CK66950	SOIL
BH51	CK66951	SOIL
BH52	CK66952	SOIL
BH53	CK66953	SOIL
BH54	CK66954	SOIL
BH55	CK66955	SOIL
BH56	CK66956	SOIL
BH57	CK66957	SOIL
BH58	CK66958	SOIL
BH59	CK66959	SOIL
BH60	CK66960	SOIL
BH61	CK66961	SOIL
TB LL	CK67067	SOIL
TB HL	CK67068	SOIL



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

11:50
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66950

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH50

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	02/16/22	CPP	SW6010D
Aluminum	7830	63	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	4.58	0.84	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	43.3	0.42	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	5490	6.3	mg/Kg	1	02/16/22	CPP	SW6010D
Cadmium	0.71	0.42	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	3.50	0.42	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	12.5	0.42	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	20.2	0.8	mg/kg	1	02/16/22	CPP	SW6010D
Iron	9930	63	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	0.16	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	518	6.3	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	2110	6.3	mg/Kg	1	02/16/22	CPP	SW6010D
Manganese	153	0.42	mg/Kg	1	02/16/22	CPP	SW6010D
Sodium	87.8	6.3	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	8.97	0.42	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	57.4	0.42	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	02/16/22	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Barium	0.30	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.8	3.8	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	18.5	0.42	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	53.8	0.8	mg/Kg	1	02/16/22	CPP	SW6010D
Percent Solid	85		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	7.91	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/16/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/16/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/16/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.53	0.53	mg/Kg	1	02/16/22	RC/BJA/D	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	58	mg/kg	5	02/16/22	AW	NJEPH 10-08 R3
C9-C28	ND	58	mg/kg	5	02/16/22	AW	NJEPH 10-08 R3
Total EPH	ND	58	mg/kg	5	02/16/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	71		%	5	02/16/22	AW	40 - 140 %
% Terphenyl (surr)	87		%	5	02/16/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/M	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/M	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.7	mg/Kg	50	02/16/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	81		%	50	02/16/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/19/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-D	ND	290	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/19/22	KCA	SW8151A
Dalapon	ND	150	ug/Kg	10	02/19/22	KCA	SW8151A
Dicamba	ND	150	ug/Kg	10	02/19/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/19/22	KCA	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/19/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	91		%	10	02/19/22	KCA	30 - 150 %
% DCAA (Confirmation)	68		%	10	02/19/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	76		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	73		%	2	02/16/22	AW	30 - 150 %
% TCMX	69		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	22	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	15	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	21	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	99	39	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	4.6	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	11	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	66		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	64		%	2	02/16/22	AW	30 - 150 %
% TCMX	61		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	62		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	89		%	10	02/16/22	KCA	30 - 150 %
% DCAA (Confirmation)	82		%	10	02/16/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	62		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	53		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	58		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	53		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	107		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	114		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 35	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.7	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.9	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	83		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	99		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 88	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	780	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	300	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	93		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	65		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	67		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	76		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	79		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	126		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	88		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	69		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	91		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	67		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	103		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	MR	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

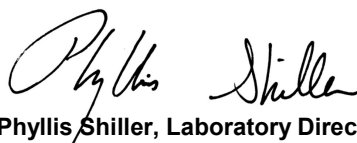
This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Semi-Volatile Comment:

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

12:00
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66951

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH51

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	1	02/16/22	CPP	SW6010D
Aluminum	8800	48	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	6.62	0.65	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	190	0.32	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	0.39	0.26	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	19500	48	mg/Kg	10	02/16/22	TH	SW6010D
Cadmium	0.97	0.32	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	6.07	0.32	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	16.9	0.32	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	51.8	0.6	mg/kg	1	02/16/22	CPP	SW6010D
Iron	15200	48	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	0.39	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1600	4.8	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	6180	48	mg/Kg	10	02/16/22	TH	SW6010D
Manganese	313	3.2	mg/Kg	10	02/16/22	TH	SW6010D
Sodium	550	4.8	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	15.2	0.32	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	274	0.32	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	< 3.2	3.2	mg/Kg	1	02/16/22	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Barium	0.56	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.53	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 2.9	2.9	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	26.5	0.32	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	175	0.6	mg/Kg	1	02/16/22	CPP	SW6010D
Percent Solid	91		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.15	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/16/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/16/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/16/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.46	0.46	mg/Kg	1	02/16/22	RC/BJA/DSW9012B	

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	110	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	410	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	520	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	Diluted Out		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	Diluted Out		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 5.9	mg/Kg	50	02/16/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	89		%	50	02/16/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-D	ND	270	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/19/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/19/22	KCA	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/19/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	87		%	10	02/19/22	KCA	30 - 150 %
% DCAA (Confirmation)	70		%	10	02/19/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	67		%	2	02/16/22	AW	30 - 150 %
% TCMX	69		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	66		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	6.4	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	5.5	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	46		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	54		%	2	02/16/22	AW	30 - 150 %
% TCMX	50		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	82		%	10	02/16/22	KCA	30 - 150 %
% DCAA (Confirmation)	89		%	10	02/16/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	58		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	59		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	61		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	64		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	54	mg/Kg	1	02/15/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	83		%	1	02/15/22	JRB	50 - 150 %
% Terphenyl (surr)	89		%	1	02/15/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 27	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 27	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 33	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.4	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 27	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.5	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.5	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	98		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 82	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	99		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	340	250	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	980	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	430	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	1500	250	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	510	250	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	1100	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	970	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	930	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	520	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	840	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	1100	250	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	1200	250	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	720	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	2100	250	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	1300	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	610	250	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	1900	250	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	3000	250	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	1800	250	ug/Kg	1	02/16/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	92		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	59		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	71		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	89		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	122		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	84		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	69		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	95		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	69		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	100		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	MR	

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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

Comments:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

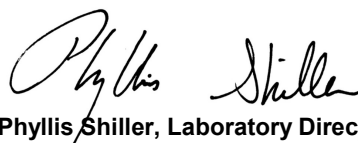
This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Semi-Volatile Comment:

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

12:35
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66952

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH52

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	02/16/22	CPP	SW6010D
Aluminum	6970	54	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	7.11	0.73	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	74.8	0.36	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	0.30	0.29	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	11000	54	mg/Kg	10	02/16/22	TH	SW6010D
Cadmium	0.74	0.36	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	3.50	0.36	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	13.9	0.36	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	39.0	0.7	mg/kg	1	02/16/22	CPP	SW6010D
Iron	10900	54	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	0.21	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	663	5.4	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	1990	5.4	mg/Kg	1	02/16/22	CPP	SW6010D
Manganese	138	0.36	mg/Kg	1	02/16/22	CPP	SW6010D
Sodium	157	5.4	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	8.65	0.36	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	131	0.36	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	02/16/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Barium	0.79	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	20.3	0.36	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	83.9	0.7	mg/Kg	1	02/16/22	CPP	SW6010D
Percent Solid	85		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.11	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/16/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/16/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/16/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.65	0.65	mg/Kg	1	02/16/22	RC/BJA/DSW9012B	

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	58	mg/kg	5	02/17/22	AW	NJEPH 10-08 R3
C9-C28	ND	58	mg/kg	5	02/17/22	AW	NJEPH 10-08 R3
Total EPH	ND	58	mg/kg	5	02/17/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	132		%	5	02/17/22	AW	40 - 140 %
% Terphenyl (surr)	108		%	5	02/17/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/18/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.7	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	92		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/19/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-D	ND	290	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/19/22	KCA	SW8151A
Dalapon	ND	150	ug/Kg	10	02/19/22	KCA	SW8151A
Dicamba	ND	150	ug/Kg	10	02/19/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/19/22	KCA	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/19/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	80		%	10	02/19/22	KCA	30 - 150 %
% DCAA (Confirmation)	56		%	10	02/19/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	78	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	83		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	82		%	2	02/16/22	AW	30 - 150 %
% TCMX	76		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	73		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	19	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	21	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	75		%	2	02/16/22	AW	30 - 150 %
% TCMX	58		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	73		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	79		%	10	02/16/22	KCA	30 - 150 %
% DCAA (Confirmation)	85		%	10	02/16/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	88		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	74		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	70		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	75		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	93		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	101		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 35	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.7	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.8	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.8	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	97		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 87	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	390	270	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	850	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	790	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	720	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	580	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	650	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	860	270	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	780	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	1900	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	600	270	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	1300	270	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	1700	270	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	51		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	46		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	41		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	43		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	50		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	55		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	115		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	83		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	71		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	92		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	67		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	95		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	MR	

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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

Comments:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Semi-Volatile Comment:

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

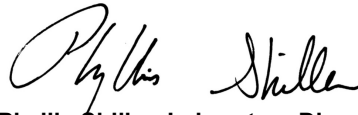
TCLP Non-Volatile Extraction:

Sample weight was < 100 grams (the minimum requirement of the method to insure homogeneity).

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.

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Phyllis Shiller, Laboratory Director

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

12:55
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66953

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH53

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Aluminum	12600	58	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	5.26	0.77	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	270	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	0.51	0.31	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	10900	5.8	mg/Kg	1	02/16/22	CPP	SW6010D
Cadmium	2.60	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	8.24	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	23.1	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	45.0	0.8	mg/kg	1	02/16/22	CPP	SW6010D
Iron	20800	58	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	2540	5.8	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	4840	5.8	mg/Kg	1	02/16/22	CPP	SW6010D
Manganese	334	3.8	mg/Kg	10	02/16/22	TH	SW6010D
Sodium	618	5.8	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	22.6	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	272	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	02/16/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Barium	0.72	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.14	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.5	3.5	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	29.3	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	994	7.7	mg/Kg	10	02/16/22	TH	SW6010D
Percent Solid	88		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	9.30	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/16/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/16/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/16/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.57	0.57	mg/Kg	1	02/16/22	RC/BJA/DSW9012B	

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	55	mg/kg	5	02/17/22	AW	NJEPH 10-08 R3
C9-C28	ND	55	mg/kg	5	02/17/22	AW	NJEPH 10-08 R3
Total EPH	ND	55	mg/kg	5	02/17/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	74		%	5	02/17/22	AW	40 - 140 %
% Terphenyl (surr)	109		%	5	02/17/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.4	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	100		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/19/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/19/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/19/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	75		%	10	02/19/22	KCA	30 - 150 %
% DCAA (Confirmation)	66		%	10	02/19/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	83		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	81		%	2	02/16/22	AW	30 - 150 %
% TCMX	71		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	70		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	14	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	7.4	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	65		%	2	02/16/22	AW	30 - 150 %
% TCMX	55		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	56		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	89		%	10	02/16/22	KCA	30 - 150 %
% DCAA (Confirmation)	83		%	10	02/16/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	64		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	57		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	63		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	62		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	87	56	mg/Kg	1	02/15/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	69		%	1	02/15/22	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	02/15/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 34	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.5	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	78		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	99		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 84	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	600	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	500	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	450	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	310	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	450	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	610	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	760	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	1500	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	360	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	1500	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	1300	260	ug/Kg	1	02/16/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	68		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	61		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	74		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	87		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	100		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	69		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	59		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	76		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	56		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	88		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

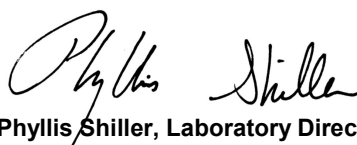
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

13:05
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66954

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH54

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	02/16/22	CPP	SW6010D
Aluminum	9170	56	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	5.73	0.75	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	561	0.37	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	0.42	0.30	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	49100	56	mg/Kg	10	02/16/22	TH	SW6010D
Cadmium	1.91	0.37	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	5.79	0.37	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	14.2	0.37	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	35.5	0.7	mg/kg	1	02/16/22	CPP	SW6010D
Iron	31100	56	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	0.24	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1760	5.6	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	5430	5.6	mg/Kg	1	02/16/22	CPP	SW6010D
Manganese	226	3.7	mg/Kg	10	02/16/22	TH	SW6010D
Sodium	815	5.6	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	11.5	0.37	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	447	0.37	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	02/16/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Barium	0.57	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.4	3.4	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	21.0	0.37	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	355	0.7	mg/Kg	1	02/16/22	CPP	SW6010D
Percent Solid	87		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.39	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/16/22	DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/16/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/16/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.64	0.64	mg/Kg	1	02/16/22	RC/BJA/DSW9012B	

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	56	mg/kg	5	02/17/22	AW	NJEPH 10-08 R3
C9-C28	ND	56	mg/kg	5	02/17/22	AW	NJEPH 10-08 R3
Total EPH	ND	56	mg/kg	5	02/17/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	101		%	5	02/17/22	AW	40 - 140 %
% Terphenyl (surr)	107		%	5	02/17/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/16/22	U/U	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.5	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	86		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/19/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/19/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/19/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/19/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/19/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	87		%	10	02/19/22	KCA	30 - 150 %
% DCAA (Confirmation)	66		%	10	02/19/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	76	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	77		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	77		%	2	02/16/22	AW	30 - 150 %
% TCMX	71		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	68		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	6.9	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	24	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	6.2	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	6.0	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	50	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	5.0	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	54		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	56		%	2	02/16/22	AW	30 - 150 %
% TCMX	52		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	84		%	10	02/16/22	KCA	30 - 150 %
% DCAA (Confirmation)	84		%	10	02/16/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/17/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/17/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/17/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/17/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	63		%	10	02/17/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	57		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	61		%	10	02/17/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	61		%	10	02/17/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	107		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	110		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 34	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.6	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.7	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	99		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 86	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	460	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	920	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	1900	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	1600	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	1500	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	920	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	1500	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	640	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	1900	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	250	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	350	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	4400	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	500	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1100	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	4200	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	3500	260	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	67		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	60		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	51		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	54		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	60		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	70		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	106		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	70		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	64		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	80		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	62		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	84		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

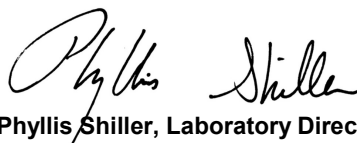
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

13:20
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66955

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH55

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.87	0.39	mg/Kg	1	02/16/22	EK	SW6010D
Aluminum	6810	59	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	4.58	0.78	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	161	0.39	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	< 0.31	0.31	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	15400	59	mg/Kg	10	02/16/22	TH	SW6010D
Cadmium	0.84	0.39	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	5.20	0.39	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	14.3	0.39	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	64.9	0.8	mg/kg	1	02/16/22	CPP	SW6010D
Iron	12200	59	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	0.21	0.03	mg/Kg	2	02/15/22	AP	SW7471B
Potassium	1180	5.9	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	4940	5.9	mg/Kg	1	02/16/22	CPP	SW6010D
Manganese	243	3.9	mg/Kg	10	02/16/22	TH	SW6010D
Sodium	221	5.9	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	12.6	0.39	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	131	0.39	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	02/16/22	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Barium	0.47	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	TH	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.5	3.5	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	24.4	0.39	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	136	0.8	mg/Kg	1	02/16/22	CPP	SW6010D
Percent Solid	84		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.34	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.54	0.54	mg/Kg	1	02/16/22	RC/BJA/DSW9012B	

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	58	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	58	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	58	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	76		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	99		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.9	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	82		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	300	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	3000	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	150	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	150	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	300	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	300	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	101		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	103		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	79	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	75		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	75		%	2	02/16/22	AW	30 - 150 %
% TCMX	70		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.4	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	3.9	2.4	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	3.1	2.4	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	4.0	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	45	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	4.0	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	50		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	52		%	2	02/16/22	AW	30 - 150 %
% TCMX	55		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	52		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	68		%	10	02/16/22	KCA	30 - 150 %
% DCAA (Confirmation)	76		%	10	02/16/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	87		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	70		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	65		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	66		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	72		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	82		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 35	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.7	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.9	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	99		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 88	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	630	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	630	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	630	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	400	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	630	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	540	280	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	1500	280	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	1200	280	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	1200	280	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	540	280	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	1100	280	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	400	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	400	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	1500	280	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	200	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	790	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	3200	280	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	600	280	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	400	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	400	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	400	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	1800	280	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	280	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	2500	280	ug/Kg	1	02/16/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	64		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	49		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	45		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	45		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	50		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	50		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	129		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	88		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	75		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	97		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	69		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	102		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

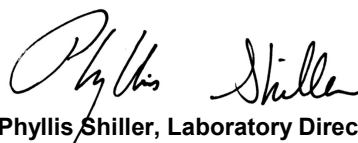
This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Semi-Volatile Comment:

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

13:30
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66956

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH56

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Aluminum	7940	50	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	5.20	0.66	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	224	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	0.37	0.26	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	34800	50	mg/Kg	10	02/16/22	TH	SW6010D
Cadmium	0.98	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	6.13	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	19.7	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	55.8	0.7	mg/kg	1	02/16/22	CPP	SW6010D
Iron	17300	50	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	0.38	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1670	5.0	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	6660	50	mg/Kg	10	02/16/22	TH	SW6010D
Manganese	246	3.3	mg/Kg	10	02/16/22	TH	SW6010D
Sodium	531	5.0	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	16.5	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	238	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	02/16/22	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.36	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.0	3.0	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	20.2	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	185	0.7	mg/Kg	1	02/16/22	CPP	SW6010D
Percent Solid	91		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	11.8	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.61	0.61	mg/Kg	1	02/16/22	RC/BJA/DSW9012B	

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	240	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	770	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	1010	55	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	Interference		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	122		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.0	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	103		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	270	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	94		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	105		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	82		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	80		%	2	02/16/22	AW	30 - 150 %
% TCMX	74		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	66		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	7.1	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	4.0	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	85		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	83		%	2	02/16/22	AW	30 - 150 %
% TCMX	60		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	67		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	81		%	10	02/16/22	KCA	30 - 150 %
% DCAA (Confirmation)	74		%	10	02/16/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	74		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	65		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	67		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	72		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	270	mg/Kg	5	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	62		%	5	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	88		%	5	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
2-Hexanone	ND	27	ug/kg	1	02/16/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/kg	1	02/16/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/16/22	JLI	SW8260C
Benzene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromoform	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Bromomethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chloroethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chloroform	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Chloromethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Cyclohexane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Dibromochloromethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Methyl ethyl ketone	ND	33	ug/kg	1	02/16/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	02/16/22	JLI	SW8260C
Methylacetate	ND	4.4	ug/kg	1	02/16/22	JLI	SW8260C
Methylcyclohexane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Methylene chloride	ND	27	ug/kg	1	02/16/22	JLI	SW8260C
o-Xylene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Styrene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Toluene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Total Xylenes	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Trichloroethene	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/kg	1	02/16/22	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	02/16/22	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	02/16/22	JLI	70 - 130 %
% Dibromofluoromethane	83		%	1	02/16/22	JLI	70 - 130 %
% Toluene-d8	96		%	1	02/16/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	82	ug/kg	1	02/16/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	101		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/17/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	910	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	1700	250	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	1000	250	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	690	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	460	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	470	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	270	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	470	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	660	250	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	1200	250	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	730	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	3400	250	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	2000	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	300	250	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	800	250	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	7300	250	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	2200	250	ug/Kg	1	02/16/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	24		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	43		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	66		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	86		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	107		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	78		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	61		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	80		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	59		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	92		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Semi-Volatile Comment:

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

GRO Analysis Comment:

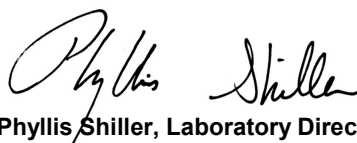
This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

13:40
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66957

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH57

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Aluminum	7450	50	mg/Kg	10	02/16/22	CPP	SW6010D
Arsenic	8.67	0.66	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	237	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	0.43	0.26	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	84600	50	mg/Kg	10	02/16/22	TH	SW6010D
Cadmium	1.03	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	6.33	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	13.5	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	58.2	0.7	mg/kg	1	02/16/22	CPP	SW6010D
Iron	17500	50	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	0.14	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	2180	5.0	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	20100	50	mg/Kg	10	02/16/22	TH	SW6010D
Manganese	468	3.3	mg/Kg	10	02/16/22	TH	SW6010D
Sodium	555	5.0	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	16.4	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	173	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	3.5	3.3	mg/Kg	1	02/16/22	EK	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.57	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.0	3.0	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	24.0	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	175	0.7	mg/Kg	1	02/16/22	CPP	SW6010D
Percent Solid	90		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.68	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.69	0.69	mg/Kg	1	02/16/22	RC/BJA/DSW9012B	

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	18	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	18	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	82		%	1	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	97		%	1	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.1	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	84		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	270	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	97		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	99		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	76		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	76		%	2	02/16/22	AW	30 - 150 %
% TCMX	70		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	66		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	57		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	54		%	2	02/16/22	AW	30 - 150 %
% TCMX	60		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/16/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/16/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	82		%	10	02/16/22	KCA	30 - 150 %
% DCAA (Confirmation)	78		%	10	02/16/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	93		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	74		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	77		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	77		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	55	mg/Kg	1	02/15/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	88		%	1	02/15/22	JRB	50 - 150 %
% Terphenyl (surr)	90		%	1	02/15/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 33	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.4	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 83	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	430	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1000	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	380	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	430	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	350	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	390	250	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	380	250	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	720	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	770	250	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	290	250	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	470	250	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	250	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	730	250	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	99		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	60		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	68		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	79		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	112		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	83		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	69		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	89		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	65		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	95		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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

Comments:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

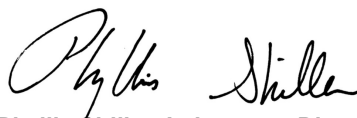
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date Time

02/11/22
 02/14/22 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66958

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH58

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.40	0.33	mg/Kg	1	02/16/22	EK	SW6010D
Aluminum	5930	50	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	8.25	0.67	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	3600	3.3	mg/Kg	10	02/16/22	TH	SW6010D
Beryllium	< 0.27	0.27	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	91000	50	mg/Kg	10	02/16/22	TH	SW6010D
Cadmium	2.48	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	8.78	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	14.5	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	47.1	0.7	mg/kg	1	02/16/22	CPP	SW6010D
Iron	46000	50	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	0.07	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1320	5.0	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	8020	50	mg/Kg	10	02/16/22	TH	SW6010D
Manganese	389	3.3	mg/Kg	10	02/16/22	TH	SW6010D
Sodium	576	5.0	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	15.2	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	1830	3.3	mg/Kg	10	02/16/22	TH	SW6010D
Antimony	13.7	3.3	mg/Kg	1	02/16/22	EK	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.80	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.95	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.0	3.0	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	16.6	0.33	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	1640	6.7	mg/Kg	10	02/16/22	TH	SW6010D
Percent Solid	88		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.75	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.47	0.47	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
C9-C28	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3
Total EPH	ND	57	mg/kg	5	02/18/22	AW	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	77		%	5	02/18/22	AW	40 - 140 %
% Terphenyl (surr)	97		%	5	02/18/22	AW	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/14/22	I/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.3	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	78		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	106		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	105		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	75	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	75		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	81		%	2	02/16/22	AW	30 - 150 %
% TCMX	70		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	71		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	4.4	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	25	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	17	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	57		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	54		%	2	02/16/22	AW	30 - 150 %
% TCMX	60		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	62		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/17/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/17/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	79		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	79		%	10	02/17/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	92		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	74		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	75		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	75		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	70	56	mg/Kg	1	02/16/22	JRB	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	65		%	1	02/16/22	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	02/16/22	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 34	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.5	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 28	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.6	ug/kg	1	02/15/22	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	106		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	96		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1,4-dioxane

1,4-dioxane	ND	L 84	ug/kg	1	02/15/22	JLI	SW8260C
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TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	02/16/22	HM	70 - 130 %

Volatile Library Search Completed 02/16/22 JLI

Semivolatiles

1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	360	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	360	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	360	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	300	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	350	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	740	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	890	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	570	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	750	260	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	96		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	64		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	69		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	82		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	121		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	84		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	69		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	94		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	68		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	101		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

14:00
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66959

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH59

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	02/16/22	CPP	SW6010D
Aluminum	7080	60	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	1.22	0.81	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	45.8	0.40	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	0.79	0.32	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	8030	6.0	mg/Kg	1	02/16/22	CPP	SW6010D
Cadmium	1.41	0.40	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	10.6	0.40	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	31.6	0.40	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	23.8	0.8	mg/kg	1	02/16/22	CPP	SW6010D
Iron	45600	60	mg/Kg	10	02/16/22	TH	SW6010D
Mercury	0.09	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1000	6.0	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	2850	6.0	mg/Kg	1	02/16/22	CPP	SW6010D
Manganese	708	4.0	mg/Kg	10	02/16/22	TH	SW6010D
Sodium	128	6.0	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	15.5	0.40	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	65.9	0.40	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	02/16/22	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	1.11	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.6	3.6	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	43.6	0.40	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	47.7	0.8	mg/Kg	1	02/16/22	CPP	SW6010D
Percent Solid	85		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.49	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	12	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	16	12	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	16	12	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	71		%	1	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	99		%	1	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.7	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	85		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-D	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-DB	ND	2900	ug/Kg	10	02/17/22	KCA	SW8151A
Dalapon	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A
Dicamba	ND	150	ug/Kg	10	02/17/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
Dinoseb	ND	290	ug/Kg	10	02/17/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	75		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	74		%	10	02/17/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	77	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	74		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	02/16/22	AW	30 - 150 %
% TCMX	70		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	56		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	58		%	2	02/16/22	AW	30 - 150 %
% TCMX	58		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/17/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/17/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	81		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	72		%	10	02/17/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	84		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	69		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	72		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	71		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	02/16/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	81		%	5	02/16/22	KCA	50 - 150 %
% Terphenyl (surr)	103		%	5	02/16/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 30	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 30	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 36	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 12	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.8	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 30	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.9	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.9	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	104		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 89	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	101		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	770	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	02/16/22	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	94		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	62		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	61		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	71		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	77		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	120		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	86		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	72		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	92		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	67		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	97		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

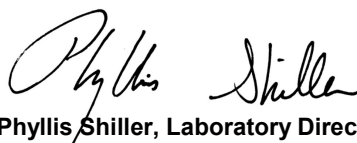
This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Semi-Volatile Comment:

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

14:05
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66960

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH60

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Aluminum	4950	57	mg/Kg	10	02/16/22	TH	SW6010D
Arsenic	2.43	0.76	mg/Kg	1	02/16/22	CPP	SW6010D
Barium	89.2	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Beryllium	< 0.30	0.30	mg/Kg	1	02/16/22	CPP	SW6010D
Calcium	15500	57	mg/Kg	10	02/16/22	CPP	SW6010D
Cadmium	0.62	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Cobalt	4.58	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Chromium	15.0	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Copper	28.0	0.8	mg/kg	1	02/16/22	CPP	SW6010D
Iron	9370	5.7	mg/Kg	1	02/16/22	CPP	SW6010D
Mercury	0.75	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1140	5.7	mg/Kg	1	02/16/22	CPP	SW6010D
Magnesium	5920	57	mg/Kg	10	02/16/22	CPP	SW6010D
Manganese	288	3.8	mg/Kg	10	02/16/22	CPP	SW6010D
Sodium	175	5.7	mg/Kg	1	02/16/22	CPP	SW6010D
Nickel	15.8	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Lead	83.7	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	02/16/22	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	0.38	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.4	3.4	mg/Kg	1	02/16/22	CPP	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	17.3	0.38	mg/Kg	1	02/16/22	CPP	SW6010D
Zinc	84.3	0.8	mg/Kg	1	02/16/22	CPP	SW6010D
Percent Solid	88		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.85	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.57	0.57	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	ND	56	mg/kg	5	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	79		%	5	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	88		%	5	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.4	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	86		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-D	ND	280	ug/Kg	10	02/17/22	KCA	SW8151A
2,4-DB	ND	2800	ug/Kg	10	02/17/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/17/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	280	ug/Kg	10	02/17/22	KCA	SW8151A
Dinoseb	ND	280	ug/Kg	10	02/17/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	76		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	79		%	10	02/17/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	74	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	70		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	76		%	2	02/16/22	AW	30 - 150 %
% TCMX	61		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	62		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	69		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	02/16/22	AW	30 - 150 %
% TCMX	54		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	56		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/17/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/17/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	88		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	72		%	10	02/17/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	90		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	73		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	70		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	71		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	02/17/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	90		%	5	02/17/22	KCA	50 - 150 %
% Terphenyl (surr)	106		%	5	02/17/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 34	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.6	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 29	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.7	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.7	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	103		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 86	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/16/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/16/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/16/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	02/16/22	HM	70 - 130 %
% Toluene-d8 (10x)	100		%	10	02/16/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	430	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	1400	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	1100	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	1100	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	590	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	1000	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	1400	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	750	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	3300	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	760	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	2200	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	2800	260	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	85		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	62		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	56		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	57		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	61		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	70		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	115		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	78		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	64		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	83		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	62		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	95		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

14:10
 15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK66961

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: BH61

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Aluminum	7200	57	mg/Kg	10	02/17/22	TH	SW6010D
Arsenic	5.79	0.76	mg/Kg	1	02/17/22	TH	SW6010D
Barium	239	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Beryllium	0.64	0.30	mg/Kg	1	02/17/22	TH	SW6010D
Calcium	6440	5.7	mg/Kg	1	02/17/22	TH	SW6010D
Cadmium	0.48	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Cobalt	8.07	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Chromium	20.4	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Copper	48.4	0.8	mg/kg	1	02/17/22	TH	SW6010D
Iron	21000	57	mg/Kg	10	02/17/22	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	02/16/22	AP	SW7471B
Potassium	1510	5.7	mg/Kg	1	02/17/22	TH	SW6010D
Magnesium	2550	5.7	mg/Kg	1	02/17/22	TH	SW6010D
Manganese	338	3.8	mg/Kg	10	02/17/22	TH	SW6010D
Sodium	136	5.7	mg/Kg	1	02/17/22	TH	SW6010D
Nickel	20.0	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Lead	237	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	02/17/22	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Barium	1.05	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	02/15/22	AP	SW846 1311/7470
TCLP Lead	0.14	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	02/15/22	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.4	3.4	mg/Kg	1	02/17/22	TH	SW6010D
TCLP Metals Digestion	Completed				02/15/22	AB/AB	SW3010A
Vanadium	26.9	0.38	mg/Kg	1	02/17/22	TH	SW6010D
Zinc	151	0.8	mg/Kg	1	02/17/22	TH	SW6010D
Percent Solid	90		%		02/14/22	Q	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	02/14/22	PK/ER	SW846-Corr
Flash Point	>200	200	Degree F	1	02/16/22	G	SW1010B
Ignitability	Passed	140	degree F	1	02/16/22	G	SW846-Ignit
pH at 25C - Soil	8.56	1.00	pH Units	1	02/14/22 22:42	PK/ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	02/17/22	ARC/DK	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	02/17/22	DK/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	02/17/22	DK/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.51	0.51	mg/Kg	1	02/17/22	ARC/DK	SW9012B

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
C9-C28	11	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3
Total EPH	11	11	mg/kg	1	02/16/22	JRB	NJEPH 10-08 R3

QA/QC Surrogates

% COD (surr)	92		%	1	02/16/22	JRB	40 - 140 %
% Terphenyl (surr)	108		%	1	02/16/22	JRB	40 - 140 %
Soil Extraction for PCB	Completed				02/15/22	O/E	SW3545A
Soil Extraction for Pesticides	Completed				02/15/22	O/E	SW3545A
Mercury Digestion	Completed				02/15/22	K/AB/K	SW7471B
Extraction of NY ETPH	Completed				02/15/22	B/R/E	SW3546
Soil Extraction for Herbicide	Completed				02/15/22	M/D	SW3546
NJ EPH Extraction	Completed				02/15/22	R/E	NJDEP 10-08 R3
Soil Extraction for SVOA	Completed				02/15/22	R/A	SW3546
TCLP Digestion Mercury	Completed				02/15/22	AB/AB	SW7470A
TCLP Herbicides Extraction	Completed				02/15/22	JS/D	SW8150 MOD
TCLP Extraction for Metals	Completed				02/14/22	AB	SW1311
TCLP Extraction for Organics	Completed				02/14/22	AB	SW1311
TCLP Pesticides Extraction	Completed				02/18/22	F/N/F	SW3510C
TCLP Semi-Volatile Extraction	Completed				02/17/22	F/F	SW3510C
TCLP Extraction Volatiles	Completed				02/15/22	JS	SW1311
Total Metals Digest	Completed				02/14/22	B/AG	SW3050B

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	L 6.1	mg/Kg	50	02/17/22	RM	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	83		%	50	02/17/22	RM	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-D	ND	270	ug/Kg	10	02/18/22	KCA	SW8151A
2,4-DB	ND	2700	ug/Kg	10	02/18/22	KCA	SW8151A
Dalapon	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A
Dicamba	ND	140	ug/Kg	10	02/18/22	KCA	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dichloroprop	ND	270	ug/Kg	10	02/18/22	KCA	SW8151A
Dinoseb	ND	270	ug/Kg	10	02/18/22	KCA	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	103		%	10	02/18/22	KCA	30 - 150 %
% DCAA (Confirmation)	116		%	10	02/18/22	KCA	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1221	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1232	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1242	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1248	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1254	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1260	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1262	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
PCB-1268	ND	73	ug/Kg	2	02/16/22	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	68		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	77		%	2	02/16/22	AW	30 - 150 %
% TCMX	57		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	56		%	2	02/16/22	AW	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	02/16/22	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
a-Chlordane	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	02/16/22	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/16/22	AW	SW8081B
g-Chlordane	ND	3.6	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	02/16/22	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	02/16/22	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/16/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	53		%	2	02/16/22	AW	30 - 150 %
% DCBP (Confirmation)	49		%	2	02/16/22	AW	30 - 150 %
% TCMX	53		%	2	02/16/22	AW	30 - 150 %
% TCMX (Confirmation)	52		%	2	02/16/22	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	02/17/22	KCA	SW846 1311/8151
2,4-D	ND	100	ug/L	10	02/17/22	KCA	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	81		%	10	02/17/22	KCA	30 - 150 %
% DCAA (Confirmation)	73		%	10	02/17/22	KCA	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	02/21/22	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	02/21/22	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	02/21/22	AW	SW8081B
Toxaphene	ND	20	ug/L	10	02/21/22	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	83		%	10	02/21/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	69		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	72		%	10	02/21/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	72		%	10	02/21/22	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	55	mg/Kg	1	02/16/22	KCA	SW-846 8015
<u>QA/QC Surrogates</u>							
% COD (surr)	95		%	1	02/16/22	KCA	50 - 150 %
% Terphenyl (surr)	98		%	1	02/16/22	KCA	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	L 27	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	L 27	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	L 50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Chloroform	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	L 32	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	L 11	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	L 4.3	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	L 27	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.4	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	L 5.4	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	104		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	96		%	1	02/15/22	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>							
1,4-dioxane	ND	L 81	ug/kg	1	02/15/22	JLI	SW8260C
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	02/17/22	HM	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	02/17/22	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	02/17/22	HM	70 - 130 %
% Dibromofluoromethane (10x)	99		%	10	02/17/22	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	02/17/22	HM	70 - 130 %
Volatile Library Search	Completed				02/16/22	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrophenol	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	02/16/22	WB	SW8270D
3-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	02/16/22	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Acetophenone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Atrazine	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzaldehyde	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Caprolactam	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Carbazole	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-butylphthalate	ND	730	ug/Kg	1	02/16/22	WB	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Isophorone	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	02/16/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	02/16/22	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Phenol	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	02/16/22	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	79		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorobiphenyl	60		%	1	02/16/22	WB	30 - 130 %
% 2-Fluorophenol	53		%	1	02/16/22	WB	30 - 130 %
% Nitrobenzene-d5	53		%	1	02/16/22	WB	30 - 130 %
% Phenol-d5	59		%	1	02/16/22	WB	30 - 130 %
% Terphenyl-d14	66		%	1	02/16/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	02/18/22	WB	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	119		%	1	02/18/22	WB	15 - 110 %
% 2-Fluorobiphenyl	84		%	1	02/18/22	WB	30 - 130 %
% 2-Fluorophenol	67		%	1	02/18/22	WB	15 - 110 %
% Nitrobenzene-d5	88		%	1	02/18/22	WB	30 - 130 %
% Phenol-d5	62		%	1	02/18/22	WB	15 - 110 %
% Terphenyl-d14	97		%	1	02/18/22	WB	30 - 130 %
Semivolatile Library Search	Completed				02/16/22	WB	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

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

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:

The GRO (C6-C10) is quantitated using a gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the GRO/VPH soil data as biased low.

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

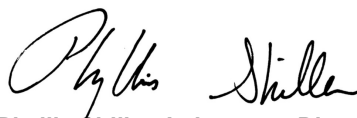
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

GRO Analysis Comment:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK67067

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: TB LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
2-Hexanone	ND	25	ug/kg	1	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/kg	1	02/15/22	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/15/22	JLI	SW8260C
Benzene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Bromoform	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Bromomethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Chloroethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Chloromethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Cyclohexane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	30	ug/kg	1	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	02/15/22	JLI	SW8260C
Methylacetate	ND	4.0	ug/kg	1	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Methylene chloride	ND	25	ug/kg	1	02/15/22	JLI	SW8260C
o-Xylene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Styrene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Toluene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Total Xylenes	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Trichloroethene	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/kg	1	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	1	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene	103		%	1	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	02/15/22	JLI	70 - 130 %
% Toluene-d8	95		%	1	02/15/22	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	75	ug/kg	1	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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

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

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



Phyllis Shiller, Laboratory Director

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

February 23, 2022

FOR: Attn: Mr. Brian Pendergast
 American Environmental Solutions, Inc
 42 West Avenue
 Patchogue, NY 11772

Sample Information

Matrix: SOIL
 Location Code: AES-EASTSIDE
 Rush Request: 72 Hour
 P.O.#: 0897

Custody Information

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

Date

02/11/22
 02/14/22

Time

15:54

Laboratory Data

SDG ID: GCK66950
 Phoenix ID: CK67068

Project ID: EAST SIDE COASTAL RESILIENCY
 Client ID: TB HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,2-Dibromoethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,2-Dichloroethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
2-Hexanone	ND	1300	ug/kg	50	02/15/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/kg	50	02/15/22	JLI	SW8260C
Acetone	ND	2500	ug/kg	50	02/15/22	JLI	SW8260C
Benzene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Bromochloromethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Bromodichloromethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Bromoform	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Bromomethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Carbon Disulfide	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Chlorobenzene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Chloroethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Chloromethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Cyclohexane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Dibromochloromethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Ethylbenzene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Isopropylbenzene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
m&p-Xylene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Methyl ethyl ketone	ND	1500	ug/kg	50	02/15/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	500	ug/kg	50	02/15/22	JLI	SW8260C
Methylacetate	ND	200	ug/kg	50	02/15/22	JLI	SW8260C
Methylcyclohexane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Methylene chloride	ND	1300	ug/kg	50	02/15/22	JLI	SW8260C
o-Xylene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Styrene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Tetrachloroethene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Toluene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Total Xylenes	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Trichloroethene	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
Vinyl chloride	ND	250	ug/kg	50	02/15/22	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	02/15/22	JLI	70 - 130 %
% Bromofluorobenzene (50x)	102		%	50	02/15/22	JLI	70 - 130 %
% Dibromofluoromethane (50x)	101		%	50	02/15/22	JLI	70 - 130 %
% Toluene-d8 (50x)	96		%	50	02/15/22	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	3800	ug/kg	50	02/15/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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

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

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



Phyllis Shiller, Laboratory Director

February 23, 2022

Reviewed and Released by: Rashmi Makol, Project Manager

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH50

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66950

Sample wt/vol: 4.98 (g/mL) g

Lab File ID: 0215_22.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 15

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18 mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH51

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66951

Matrix:(soil/water) SOIL

Lab Sample ID: CK66951

Sample wt/vol: 4.98 (g/mL) g

Lab File ID: 0215_23.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 9

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18 mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH52

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66952

Matrix:(soil/water) SOIL

Lab Sample ID: CK66952

Sample wt/vol: 5.07 (g/mL) g

Lab File ID: 0215_24.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 15

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18 mm

Dilution Factor: _____ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): _____ 5000

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH53

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66953

Sample wt/vol: 5.05 (g/mL) g

Lab File ID: 0215_25.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 12

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18 mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH54

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66954

Matrix:(soil/water) SOIL

Lab Sample ID: CK66954

Sample wt/vol: 5.01 (g/mL) g

Lab File ID: 0215_26.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 13

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18 mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH55

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66955

Sample wt/vol: 5.04 (g/mL) g

Lab File ID: 0215_27.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 16

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18 mm

Dilution Factor: _____ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): _____ 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID BH56

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66956

Matrix:(soil/water) SOIL

Lab Sample ID: CK66956

Sample wt/vol: 5.02 (g/mL) g

Lab File ID: 0216_21.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 9

Date Analyzed: 02/16/22

GC Column: RTX-VMS ID: 0.18 mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
60-29-7	Diethyl ether	1.515	140	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH57

Lab Name: Phoenix Environmental LabsClient: AES-EASTSIDELab Code: Phoenix Case No.: _____SAS No.: _____ SDG No.: GCK6695Matrix:(soil/water) SOILLab Sample ID: CK66957Sample wt/vol: 5.01 (g/mL) gLab File ID: 0215_20.DLevel: (low/med) PPLDate Received: 02/14/22% Moisture: not dec. 10Date Analyzed: 02/15/22GC Column: RTX-VMS ID: 0.18mmDilution Factor: 1Purge Volume: 5000 (uL)Soil Aliquot Vol (uL): 5000Number TICs found: 3 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000575-41-7	Naphthalene, 1,3-dimethyl-	7.617	9.3	JN
000083-32-9	Acenaphthene	9.834	28	JN
108-05-4	Naphthalene	10.064	3.7	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH58

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66958

Sample wt/vol: 5.04 (g/mL) g

Lab File ID: 0215_21.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 12

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000132-64-9	Dibenzofuran	10.550	5.9	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH59

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK6695

Matrix:(soil/water) SOIL

Lab Sample ID: CK66959

Sample wt/vol: 4.94 (g/mL) g

Lab File ID: 0215_22.D

Level: (low/med) PPL

Date Received: 02/14/22

% Moisture: not dec. 15

Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: _____ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): _____ 5000

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH61

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK6695

Matrix:(soil/water) SOIL Lab Sample ID: CK66961

Sample wt/vol: 5.13 (g/mL) g Lab File ID: 0215_24.D

Level: (low/med) PPL Date Received: 02/14/22

% Moisture: not dec. 10 Date Analyzed: 02/15/22

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: _____ 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): _____ 5000

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH50

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66950

Sample wt/vol: 15.1 (g/mL) g

Lab File ID: 0215_23.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.169	3100	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.904	1700	JNC
1000297-95-5	4-((1E)-3-Hydroxy-1-propenyl)-2-me	6.851	400	JN
000112-88-9	1-Octadecene	6.945	1100	JN
	unknown hydrocarbon	7.798	350	J
074685-30-6	5-Eicosene, (E)-	9.592	510	JN
000297-03-0	Cyclotetracosane	10.727	660	JN
013475-76-8	Docosane, 11-butyl-	12.180	480	JN
	Cyclotetracosane Isomer	12.280	630	JN
000630-01-3	Hexacosane	14.157	600	JN
	unknown hydrocarbon	14.327	390	J
1000210-38-4	17-(1,5-Dimethylhexyl)-10,13-dimet	14.868	700	JN
000083-47-6	,gamma.-Sitosterol	16.992	730	JN
001058-61-3	Stigmast-4-en-3-one	17.745	380	JN
000559-74-0	Friedelan-3-one	18.262	1000	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH51

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66951

Sample wt/vol: 15.27 (g/mL) g

Lab File ID: 0215_24.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 9 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.169	2500	JNA
000091-57-6	Naphthalene, 2-methyl-	4.963	840	JN
000571-61-9	Naphthalene, 1,5-dimethyl-	5.416	490	JN
000575-43-9	Naphthalene, 1,6-dimethyl-	5.492	510	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.904	1600	JNC
	unknown hydrocarbon	6.210	340	J
	unknown hydrocarbon	6.922	560	J
000112-88-9	1-Octadecene	6.945	920	JN
000203-64-5	4H-Cyclopenta[def]phenanthrene	7.651	560	JN
003674-66-6	Phenanthrene, 2,5-dimethyl-	8.051	430	JN
	Pyrene, 1-methyl- Isomer	8.716	620	JN
000243-17-4	11H-Benzo[b]fluorene	8.780	370	JN
002381-21-7	Pyrene, 1-methyl-	8.828	340	JN
002541-69-7	Benz[a]anthracene, 7-methyl-	10.480	410	JN
000207-08-9	Benzo[k]fluoranthene	12.445	620	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH52

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66952

Sample wt/vol: 15.12 (g/mL) g

Lab File ID: 0215_25.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.169	3600	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.904	1200	JNC
000629-73-2	1-Hexadecene	6.945	760	JN
	unknown hydrocarbon	7.651	600	J
003674-66-6	Phenanthrene, 2,5-dimethyl-	8.045	390	JN
000243-17-4	11H-Benzo[b]fluorene	8.716	400	JN
000192-97-2	Benzo[e]pyrene	12.451	650	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
 Aldol condensation products are produced during the extraction process.
 C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH53

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66953

Sample wt/vol: 15.03 (g/mL) g

Lab File ID: 0215_26.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 7 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000590-90-9	2-Butanone, 4-hydroxy-	1.881	1100	JN
000141-79-7	3-Penten-2-one, 4-methyl-	1.928	370	JNA
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.187	17000	JNA
	unknown hydrocarbon	4.845	320	J
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.910	2000	JNC
000112-88-9	1-Octadecene	6.945	1300	JN
003674-66-6	Phenanthrene, 2,5-dimethyl-	8.045	360	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH54

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66954

Sample wt/vol: 15.23 (g/mL) g

Lab File ID: 0215_27.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 13 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.175	3200	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.910	1700	JNC
000112-88-9	1-Octadecene	6.945	1200	JN
	Phenanthrene, 2-methyl- Isomer	7.545	500	JN
002531-84-2	Phenanthrene, 2-methyl-	7.569	600	JN
	unknown hydrocarbon	7.651	1000	J
035465-71-5	2-Phenylnaphthalene	7.810	440	JN
002381-21-7	Pyrene, 1-methyl-	8.604	390	JN
000243-17-4	11H-Benzo[b]fluorene	8.722	880	JN
033543-31-6	Fluoranthene, 2-methyl-	8.786	450	JN
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	9.457	450	JN
000479-79-8	11H-Benzo[a]fluoren-11-one	9.598	470	JN
001705-84-6	Triphenylene, 2-methyl-	10.480	500	JN
000192-97-2	Benzo[e]pyrene	12.051	460	JN
000205-82-3	Benzo[j]fluoranthene	12.451	1000	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH55

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66955

Sample wt/vol: 15.07 (g/mL) g

Lab File ID: 0215_27.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 16 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 8

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.132	4700	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.839	1000	JNC
074685-29-3	9-Eicosene, (E)-	6.877	650	JN
000203-64-5	4H-Cyclopenta[def]phenanthrene	7.577	520	JN
002381-21-7	Pyrene, 1-methyl-	8.631	610	JN
000238-84-6	11H-Benzo[a]fluorene	8.695	380	JN
000207-08-9	Benzo[k]fluoranthene	12.188	680	JN
002435-53-2	3,5-Cyclohexadiene-1,2-dione, 3,4,	16.846	930	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH56

Lab Name: <u>Phoenix Environmental Labs</u>	Client: <u>AES-EASTSIDE</u>
Lab Code: <u>Phoenix</u> Case No.: _____	SAS No.: _____ SDG No.: <u>GCK66956</u>
Matrix:(soil/water) <u>SOIL</u>	Lab Sample ID: <u>CK66956</u>
Sample wt/vol: <u>15.11</u> (g/mL) <u>g</u>	Lab File ID: <u>0215_28.D</u>
Level: (low/med) <u>Low</u>	Date Received: <u>02/14/22</u>
% Moisture: not dec. <u>9</u> decanted:(Y/N) <u>NA</u>	Date Extracted: <u>02/16/22</u>
GPC Cleanup (Y/N): <u>N</u> pH: <u>NA</u>	Date Analyzed: <u>2/16/2022</u>
Conc. Extract Volume: <u>1000</u> (uL)	Dilution Factor <u>1</u>
Injection Volume: <u>1</u> (uL)	
Number TICs found: <u>3</u>	CONCENTRATION UNITS: (ug/L or ug/KG) <u>ug/Kg</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.212	160000	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.839	1400	JNC
	unknown hydrocarbon	7.577	1000	J

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BH57

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____ SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66957

Sample wt/vol: 15.39 (g/mL) g

Lab File ID: 0215_29.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 10 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.132	1700	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.839	1100	JNC
074685-29-3	9-Eicosene, (E)-	6.877	700	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH58

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66958

Matrix:(soil/water) SOIL

Lab Sample ID: CK66958

Sample wt/vol: 15.41 (g/mL) g

Lab File ID: 0215_30.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.133	1800	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.839	1500	JNC
000629-73-2	1-Hexadecene	6.877	940	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID BH59

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66959

Matrix:(soil/water) SOIL

Lab Sample ID: CK66959

Sample wt/vol: 15.35 (g/mL) g

Lab File ID: 0215_24.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.133	1800	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.839	1400	JNC
1000130-97-9	E-15-Heptadecenal	6.877	890	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID BH60

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66950

Matrix:(soil/water) SOIL

Lab Sample ID: CK66960

Sample wt/vol: 15.11 (g/mL) g

Lab File ID: 0215_31.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.133	1800	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.839	1300	JNC
000629-73-2	1-Hexadecene	6.877	790	JN
000610-48-0	Anthracene, 1-methyl-	7.476	330	JN
002531-84-2	Phenanthrene, 2-methyl-	7.503	390	JN
	unknown hydrocarbon	7.577	520	J
000243-17-4	11H-Benzo[b]fluorene	8.636	420	JN
000479-79-8	11H-Benzo[a]fluoren-11-one	9.492	310	JN
000652-04-0	Benzo[c]phenanthrene, 5-methyl-	10.337	310	JN
000192-97-2	Benzo[e]pyrene	12.199	630	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
BH61

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK66956

Matrix:(soil/water) SOIL

Lab Sample ID: CK66961

Sample wt/vol: 15.2 (g/mL) g

Lab File ID: 0215_25.D

Level: (low/med) Low

Date Received: 02/14/22

% Moisture: not dec. 10 decanted:(Y/N) NA

Date Extracted: 02/16/22

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 2/16/2022

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.132	1700	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.839	1300	JNC
074685-29-3	9-Eicosene, (E)-	6.877	930	JN
001599-67-3	1-Docosene	8.283	910	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.



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



QA/QC Report

February 23, 2022

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCS D %	LCS RPD	MS %	MS D %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 612183 (mg/L), QC Sample No: CK66592 (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	122			104			80 - 120	20

Comment:

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

QA/QC Batch 612197 (mg/kg), QC Sample No: CK66947 2X (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959)

Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	112	112	0.0	118	121	2.5	70 - 130	30
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Comment:

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

QA/QC Batch 612201 (mg/kg), QC Sample No: CK66979 2X (CK66960, CK66961)

Mercury - Soil	BRL	0.03	0.03	0.08	NC	121	122	0.8	118	108	8.8	70 - 130	30
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Comment:

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

QA/QC Batch 612186 (mg/L), QC Sample No: CK66629 (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.05	<0.05	<0.05	NC	107	111	3.7	110			80 - 120	20
Barium	BRL	0.01	0.22	0.22	0	103	106	2.9	107			80 - 120	20
Cadmium	BRL	0.005	<0.004	<0.005	NC	104	107	2.8	108			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	100	104	3.9	104			80 - 120	20
Lead	BRL	0.010	<0.010	<0.010	NC	106	109	2.8	110			80 - 120	20
Selenium	BRL	0.05	<0.04	<0.05	NC	112	117	4.4	114			80 - 120	20
Silver	BRL	0.010	<0.005	<0.010	NC	108	111	2.7	110			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 612118 (mg/kg), QC Sample No: CK66773 (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960)

ICP Metals - Soil

Aluminum	BRL	5.0	4110	4230	2.90	90.7	98.6	8.3	NC			75 - 125	35
Antimony	BRL	3.3	<3.2	<3.4	NC	98.7	100	1.3	101			75 - 125	35
Arsenic	BRL	0.67	1.51	1.76	NC	86.4	92.2	6.5	98.1			75 - 125	35
Barium	BRL	0.33	38.5	45.5	16.7	102	105	2.9	116			75 - 125	35
Beryllium	BRL	0.27	0.27	0.27	NC	99.9	102	2.1	92.9			75 - 125	35
Cadmium	BRL	0.33	0.64	0.69	NC	92.3	91.1	1.3	93.5			75 - 125	35
Calcium	BRL	5.0	1800	1610	11.1	94.5	95.5	1.1	NC			75 - 125	35
Chromium	BRL	0.33	11.7	10.8	8.00	104	107	2.8	96.4			75 - 125	35
Cobalt	BRL	0.33	4.57	5.03	9.60	105	103	1.9	97.6			75 - 125	35
Copper	BRL	0.67	14.6	15.9	8.50	109	115	5.4	101			75 - 125	35
Iron	BRL	5.0	15700	16100	2.50	91.5	104	12.8	NC			75 - 125	35
Lead	BRL	0.33	16.2	21.2	26.7	95.3	104	8.7	101			75 - 125	35
Magnesium	BRL	5.0	1610	1530	5.10	90.9	97.9	7.4	NC			75 - 125	35
Manganese	BRL	0.33	272	255	6.50	98.2	101	2.8	86.1			75 - 125	35

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Nickel	BRL	0.33	11.8	9.76	18.9	99.7	98.6	1.1	92.8			75 - 125	35
Potassium	BRL	5.0	721	850	16.4	94.9	103	8.2	>130			75 - 125	35
Selenium	BRL	1.3	<1.3	<1.3	NC	76.2	78.9	3.5	100			75 - 125	35
Silver	BRL	0.33	<0.32	<0.34	NC	95.6	102	6.5	100			75 - 125	35
Sodium	BRL	5.0	113	107	5.50	98.6	104	5.3	>130			75 - 125	35
Thallium	BRL	3.0	<1.3	<3.0	NC	94.9	94.7	0.2	96.9			75 - 125	35
Vanadium	BRL	0.33	18.4	29.3	45.7	101	107	5.8	101			75 - 125	35
Zinc	BRL	0.67	27.8	32.0	14.0	93.9	98.1	4.4	100			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 612187 (mg/L), QC Sample No: CK66957 (CK66957, CK66958, CK66959, CK66960, CK66961)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	<0.10	<0.10	NC	111	113	1.8	104			80 - 120	20
Barium	BRL	0.10	0.57	0.92	47.0	106	107	0.9	101			80 - 120	20
Cadmium	BRL	0.050	<0.050	<0.050	NC	108	110	1.8	104			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	104	106	1.9	101			80 - 120	20
Lead	BRL	0.10	<0.10	<0.10	NC	109	113	3.6	105			80 - 120	20
Selenium	BRL	0.10	<0.10	<0.10	NC	114	117	2.6	105			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	110	112	1.8	101			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 612119 (mg/kg), QC Sample No: CK66961 (CK66961)

ICP Metals - Soil

Aluminum	BRL	5.0	7200	6950	3.50	86.1	91.3	5.9	NC			75 - 125	35
Antimony	BRL	3.3	<3.8	<3.9	NC	94.4	93.9	0.5	93.3			75 - 125	35
Arsenic	BRL	0.67	5.79	4.47	25.7	90.6	94.2	3.9	102			75 - 125	35
Barium	BRL	0.33	239	396	49.4	102	106	3.8	88.1			75 - 125	35
Beryllium	BRL	0.27	0.64	0.64	NC	106	110	3.7	103			75 - 125	35
Cadmium	BRL	0.33	0.48	0.44	NC	101	103	2.0	105			75 - 125	35
Calcium	BRL	5.0	6440	5780	10.8	101	105	3.9	NC			75 - 125	35
Chromium	BRL	0.33	20.4	20.7	1.50	108	110	1.8	106			75 - 125	35
Cobalt	BRL	0.33	8.07	8.96	10.5	108	109	0.9	102			75 - 125	35
Copper	BRL	0.67	48.4	41.9	14.4	106	111	4.6	103			75 - 125	35
Iron	BRL	5.0	21000	21900	4.20	94.4	104	9.7	NC			75 - 125	35
Lead	BRL	0.33	237	202	15.9	101	107	5.8	104			75 - 125	35
Magnesium	BRL	5.0	2550	2330	9.00	98.7	102	3.3	NC			75 - 125	35
Manganese	BRL	0.33	338	456	29.7	106	111	4.6	101			75 - 125	35
Nickel	BRL	0.33	20.0	19.7	1.50	104	105	1.0	104			75 - 125	35
Potassium	BRL	5.0	1510	1460	3.40	89.8	93.1	3.6	>130			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.6	NC	79.7	82.7	3.7	99.7			75 - 125	35
Silver	BRL	0.33	<0.38	<0.39	NC	101	106	4.8	100			75 - 125	35
Sodium	BRL	5.0	136	131	3.70	88.1	92.3	4.7	>130			75 - 125	35
Thallium	BRL	3.0	<3.4	<3.5	NC	98.4	101	2.6	100			75 - 125	35
Vanadium	BRL	0.33	26.9	26.6	1.10	103	108	4.7	105			75 - 125	35
Zinc	BRL	0.67	151	136	10.5	99.4	103	3.6	107			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

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

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

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



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QA/QC Report

February 23, 2022

QA/QC Data

SDG I.D.: GCK66950

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 612579 (mg/Kg), QC Sample No: CK65111 5X (CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)													
Reactivity Cyanide	BRL	5	<5	<5.5	NC	103						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	92.0						80 - 120	30
QA/QC Batch 612395 (mg/Kg), QC Sample No: CK65630 5X (CK66950, CK66951, CK66952, CK66953, CK66954)													
Reactivity Cyanide	BRL	5	<5	<5.3	NC	104						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	96.0						80 - 120	30
QA/QC Batch 612320 (mg/Kg), QC Sample No: CK66207 50X (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.46	<0.55	NC	110			99.5			80 - 120	30
Comment: Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 612504 (mg/Kg), QC Sample No: CK66958 50X (CK66958, CK66959, CK66960, CK66961)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.47	<0.47	NC	93.5			84.0			80 - 120	30
Comment: Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 612169 (PH), QC Sample No: CK66453 (CK66950, CK66951, CK66952, CK66953)													
pH at 25C - Soil			4.27	4.29	NC	100						85 - 115	20
QA/QC Batch 612439 (Degree F), QC Sample No: CK66856 (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)													
Flash Point			>200	>200	NC	100						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 612170 (PH), QC Sample No: CK66954 (CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)													
pH at 25C - Soil			8.39	8.35	0.50	100						85 - 115	20



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QA/QC Report

February 23, 2022

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 612265 (mg/kg), QC Sample No: CK66780 (CK66950, CK66951)										
<u>Extractable Petroleum Hydrocarbons - Soil</u>										
C9-C28	ND	10	119	110	7.9	122	120	1.7	40 - 140	25
C9-C28 #2 Fuel / Diesel			121	102	17.0				40 - 140	25
>C28-C40	ND	10	106	95	10.9	111	108	2.7	40 - 140	25
C9 - Nonane	ND	3.3	84	78	7.4	86	88	2.3	40 - 140	25
C10 - Decane	ND	3.3	98	97	1.0	114	104	9.2	40 - 140	25
C12 - Dodecane	ND	3.3	116	109	6.2	122	122	0.0	40 - 140	25
C14 - Tetradecane	ND	3.3	129	113	13.2	132	134	1.5	40 - 140	25
C16 - Hexadecane	ND	3.3	135	121	10.9	142	140	1.4	40 - 140	25
C18 - Octadecane	ND	3.3	70	85	19.4	98	84	15.4	40 - 140	25
C20 - Eicosane	ND	3.3	136	121	11.7	136	134	1.5	40 - 140	25
C21 - Heneicosane	ND	3.3	124	120	3.3	123	122	0.8	40 - 140	25
C22 - Docosane	ND	3.3	162	137	16.7	150	153	2.0	40 - 140	25
C24 - Tetracosane	ND	3.3	123	112	9.4	118	118	0.0	40 - 140	25
C26 - Hexacosane	ND	3.3	123	112	9.4	120	120	0.0	40 - 140	25
C28 - Octacosane	ND	3.3	124	111	11.1	122	121	0.8	40 - 140	25
C30 - Tricotane	ND	3.3	118	107	9.8	119	117	1.7	40 - 140	25
C32 - Dotriacontane	ND	3.3	114	102	11.1	116	114	1.7	40 - 140	25
C34 - Tetratriacontane	ND	3.3	109	98	10.6	104	96	8.0	40 - 140	25
C36 - Hexatriacontane	ND	3.3	100	91	9.4	109	111	1.8	40 - 140	25
C38 - Octatriacontane	ND	3.3	95	86	9.9	107	104	2.8	40 - 140	25
C40 - Tetracontane	ND	3.3	96	83	14.5	108	106	1.9	40 - 140	25
% COD (surr)	119	%	130	114	13.1	131	129	1.5	40 - 140	25
% Terphenyl (surr)	134	%	129	113	13.2	133	130	2.3	40 - 140	25

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%
 Additional: MS acceptance range 50-150%.

QA/QC Batch 612266 (mg/kg), QC Sample No: CK66956 (CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)

Extractable Petroleum Hydrocarbons - Soil

C9-C28	ND	10	94	99	5.2	85	83	2.4	40 - 140	25
C9-C28 #2 Fuel / Diesel			113	109	3.6				40 - 140	25
>C28-C40	ND	10	82	87	5.9	64	71	10.4	40 - 140	25
C9 - Nonane	ND	3.3	73	75	2.7	57	61	6.8	40 - 140	25
C10 - Decane	ND	3.3	88	91	3.4	71	72	1.4	40 - 140	25
C12 - Dodecane	ND	3.3	93	97	4.2	83	86	3.6	40 - 140	25
C14 - Tetradecane	ND	3.3	100	104	3.9	99	88	11.8	40 - 140	25
C16 - Hexadecane	ND	3.3	105	110	4.7	104	98	5.9	40 - 140	25
C18 - Octadecane	ND	3.3	124	129	4.0	94	82	13.6	40 - 140	25
C20 - Eicosane	ND	3.3	109	113	3.6	93	85	9.0	40 - 140	25
C21 - Heneicosane	ND	3.3	87	90	3.4	88	92	4.4	40 - 140	25
C22 - Docosane	ND	3.3	92	104	12.2	73	89	19.8	40 - 140	25

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
C24 - Tetracosane	ND	3.3	82	92	11.5	114	85	29.1	40 - 140	25
C26 - Hexacosane	ND	3.3	85	93	9.0	72	82	13.0	40 - 140	25
C28 - Octacosane	ND	3.3	90	88	2.2	68	75	9.8	40 - 140	25
C30 - Tricotane	ND	3.3	88	88	0.0	69	73	5.6	40 - 140	25
C32 - Dotriacontane	ND	3.3	84	87	3.5	62	74	17.6	40 - 140	25
C34 - Tetratriacontane	ND	3.3	85	80	6.1	74	80	7.8	40 - 140	25
C36 - Hexatriacontane	ND	3.3	81	84	3.6	59	66	11.2	40 - 140	25
C38 - Octatriacontane	ND	3.3	75	84	11.3	62	68	9.2	40 - 140	25
C40 - Tetracontane	ND	3.3	79	102	25.4	60	68	12.5	40 - 140	25
% COD (surr)	90	%	110	121	9.5	67	93	32.5	40 - 140	25
% Terphenyl (surr)	103	%	97	100	3.0	88	94	6.6	40 - 140	25

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

Additional: MS acceptance range 50-150%.

QA/QC Batch 612072 (mg/Kg), QC Sample No: CK66957 (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	91	98	7.4	95	101	6.1	30 - 130	30
% COD (surr)	87	%	61	53	14.0	94	100	6.2	50 - 150	30
% Terphenyl (surr)	86	%	94	94	0.0	91	100	9.4	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 612264 (mg/Kg), QC Sample No: CK66960 (CK66959, CK66960, CK66961)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	84	88	4.7	104	80	26.1	30 - 130	30
% COD (surr)	98	%	135	104	25.9	116	116	0.0	50 - 150	30
% Terphenyl (surr)	100	%	114	97	16.1	119	114	4.3	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 612584 (mg/Kg), QC Sample No: CK66950 (CK66950 (50X) , CK66951 (50X) , CK66952 (50X) , CK66953 (50X) , CK66954 (50X) , CK66955 (50X) , CK66956 (50X) , CK66957 (50X) , CK66958 (50X) , CK66959 (50X) , CK66960 (50X) , CK66961 (50X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	0.10	73	77	5.3	76	75	1.3	70 - 130	30
% 2,5-Dibromotoluene (FID)	94	%	110	102	7.5	99	95	4.1	70 - 130	30

QA/QC Batch 612356 (ug/Kg), QC Sample No: CK66778 10X (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	78	85	8.6	72	66	8.7	40 - 140	30
2,4,5-TP (Silvex)	ND	130	72	79	9.3	63	58	8.3	40 - 140	30
2,4-D	ND	250	80	89	10.7	68	61	10.9	40 - 140	30
2,4-DB	ND	2500	93	102	9.2	67	62	7.8	40 - 140	30
Dalapon	ND	130	64	68	6.1	64	57	11.6	40 - 140	30
Dicamba	ND	130	76	89	15.8	79	71	10.7	40 - 140	30
Dichloroprop	ND	130	87	95	8.8	82	67	20.1	40 - 140	30
Dinoseb	ND	130	75	83	10.1	62	59	5.0	40 - 140	30
% DCAA (Surrogate Rec)	76	%	98	105	6.9	90	82	9.3	30 - 150	30
% DCAA (Surrogate Rec) (Confirm)	80	%	106	114	7.3	88	84	4.7	30 - 150	30

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blank	BLK RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 612258 (ug/L), QC Sample No: CK66950 10X (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)

TCLP Herbicides

2,4,5-TP (Silvex)	ND	50	87	101	14.9	102			40 - 140	20
2,4-D	ND	100	97	111	13.5	111			40 - 140	20
% DCAA	121	%	88	98	10.8	119			30 - 150	20
% DCAA (Confirmation)	128	%	82	90	9.3	88			30 - 150	20

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 612278 (ug/Kg), QC Sample No: CK66777 2X (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	89	87	2.3	87	82	5.9	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	103	101	2.0	101	96	5.1	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	91	%	110	110	0.0	109	102	6.6	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	90	%	104	106	1.9	103	100	3.0	30 - 150	30
% TCMX (Surrogate Rec)	78	%	93	89	4.4	89	84	5.8	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	75	%	94	90	4.3	90	84	6.9	30 - 150	30

QA/QC Batch 612279 (ug/Kg), QC Sample No: CK66777 2X (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)

Pesticides - Soil

4,4' -DDD	ND	1.7	85	70	19.4	90	86	4.5	40 - 140	30
4,4' -DDE	ND	1.7	70	66	5.9	81	79	2.5	40 - 140	30
4,4' -DDT	ND	1.7	62	47	27.5	67	62	7.8	40 - 140	30
a-BHC	ND	1.0	83	75	10.1	83	81	2.4	40 - 140	30
a-Chlordane	ND	3.3	73	62	16.3	80	81	1.2	40 - 140	30
Aldrin	ND	1.0	88	68	25.6	89	90	1.1	40 - 140	30
b-BHC	ND	1.0	65	78	18.2	88	83	5.8	40 - 140	30
Chlordane	ND	33	78	65	18.2	81	83	2.4	40 - 140	30
d-BHC	ND	3.3	62	65	4.7	81	77	5.1	40 - 140	30
Dieldrin	ND	1.0	75	71	5.5	91	83	9.2	40 - 140	30
Endosulfan I	ND	3.3	77	66	15.4	77	80	3.8	40 - 140	30
Endosulfan II	ND	3.3	102	67	41.4	93	87	6.7	40 - 140	30
Endosulfan sulfate	ND	3.3	55	59	7.0	75	72	4.1	40 - 140	30
Endrin	ND	3.3	61	56	8.5	74	69	7.0	40 - 140	30
Endrin aldehyde	ND	3.3	61	56	8.5	66	60	9.5	40 - 140	30
Endrin ketone	ND	3.3	80	53	40.6	83	75	10.1	40 - 140	30
g-BHC	ND	1.0	73	77	5.3	84	80	4.9	40 - 140	30
g-Chlordane	ND	3.3	78	65	18.2	81	83	2.4	40 - 140	30
Heptachlor	ND	3.3	64	65	1.6	80	78	2.5	40 - 140	30
Heptachlor epoxide	ND	3.3	81	65	21.9	82	84	2.4	40 - 140	30
Methoxychlor	ND	3.3	52	56	7.4	61	54	12.2	40 - 140	30

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	82	%	77	87	12.2	79	78	1.3	30 - 150	30
% DCBP (Confirmation)	65	%	69	81	16.0	74	68	8.5	30 - 150	30
% TCMX	47	%	75	67	11.3	73	72	1.4	30 - 150	30
% TCMX (Confirmation)	66	%	75	68	9.8	74	69	7.0	30 - 150	30

QA/QC Batch 612876 (ug/L), QC Sample No: CK66956 10X (CK66952, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)

Pesticides

4,4' -DDD	ND	0.25	104	80	26.1	96			40 - 140	20	r
4,4' -DDE	ND	0.25	95	82	14.7	98			40 - 140	20	
4,4' -DDT	ND	0.25	102	95	7.1	99			40 - 140	20	
a-BHC	ND	0.15	79	73	7.9	88			40 - 140	20	
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20	
Aldrin	ND	0.15	93	81	13.8	98			40 - 140	20	
b-BHC	ND	0.15	97	79	20.5	98			40 - 140	20	
Chlordane	ND	5.0	92	81	12.7	95			40 - 140	20	
d-BHC	ND	0.50	75	65	14.3	78			40 - 140	20	
Dieldrin	ND	0.15	101	90	11.5	108			40 - 140	20	
Endosulfan I	ND	0.50	89	77	14.5	99			40 - 140	20	
Endosulfan II	ND	0.50	102	84	19.4	102			40 - 140	20	
Endosulfan sulfate	ND	0.50	94	89	5.5	100			40 - 140	20	
Endrin	ND	0.50	81	78	3.8	92			40 - 140	20	
Endrin aldehyde	ND	0.50	100	80	22.2	92			40 - 140	20	r
g-BHC	ND	0.15	87	78	10.9	96			40 - 140	20	
Heptachlor	ND	0.50	86	74	15.0	91			40 - 140	20	
Heptachlor epoxide	ND	0.50	93	84	10.2	101			40 - 140	20	
Methoxychlor	ND	0.50	81	62	26.6	77			40 - 140	20	r
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20	
% DCBP	90	%	92	91	1.1	96			30 - 150	20	
% DCBP (Confirmation)	71	%	79	73	7.9	77			30 - 150	20	
% TCMX	57	%	68	65	4.5	80			30 - 150	20	
% TCMX (Confirmation)	66	%	75	71	5.5	79			30 - 150	20	

QA/QC Batch 612259 (ug/kg), QC Sample No: CK66780 (CK66950, CK66951, CK66952, CK66953, CK66954)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	74	79	6.5	77	76	1.3	40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230	69	75	8.3	72	71	1.4	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	63	69	9.1	70	67	4.4	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	86	89	3.4	81	79	2.5	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	85	87	2.3	81	80	1.2	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	86	89	3.4	88	85	3.5	30 - 130	30	
2,4-Dichlorophenol	ND	130	82	86	4.8	82	82	0.0	30 - 130	30	
2,4-Dimethylphenol	ND	230	83	89	7.0	75	72	4.1	30 - 130	30	
2,4-Dinitrophenol	ND	230	24	21	13.3	34	25	30.5	30 - 130	30	l,m
2,4-Dinitrotoluene	ND	130	90	91	1.1	86	84	2.4	30 - 130	30	
2,6-Dinitrotoluene	ND	130	88	92	4.4	86	85	1.2	40 - 140	30	
2-Chloronaphthalene	ND	230	78	82	5.0	81	79	2.5	40 - 140	30	
2-Chlorophenol	ND	230	77	85	9.9	82	81	1.2	30 - 130	30	
2-Methylnaphthalene	ND	230	71	76	6.8	73	73	0.0	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	84	92	9.1	88	85	3.5	40 - 140	30	
2-Nitroaniline	ND	330	116	118	1.7	104	102	1.9	40 - 140	30	
2-Nitrophenol	ND	230	79	85	7.3	82	81	1.2	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	89	97	8.6	90	88	2.2	30 - 130	30	

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
3,3'-Dichlorobenzidine	ND	130	104	106	1.9	81	82	1.2	40 - 140	30
3-Nitroaniline	ND	330	102	104	1.9	81	86	6.0	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	46	38	19.0	66	51	25.6	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	88	91	3.4	84	83	1.2	40 - 140	30
4-Chloro-3-methylphenol	ND	230	89	91	2.2	85	84	1.2	30 - 130	30
4-Chloroaniline	ND	230	82	88	7.1	58	70	18.8	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	85	88	3.5	82	81	1.2	40 - 140	30
4-Nitroaniline	ND	230	92	96	4.3	91	90	1.1	40 - 140	30
4-Nitrophenol	ND	230	91	91	0.0	86	84	2.4	30 - 130	30
Acenaphthene	ND	230	83	87	4.7	84	82	2.4	30 - 130	30
Acenaphthylene	ND	130	73	75	2.7	74	72	2.7	40 - 140	30
Acetophenone	ND	230	67	74	9.9	73	71	2.8	40 - 140	30
Anthracene	ND	230	85	88	3.5	82	82	0.0	40 - 140	30
Atrazine	ND	130	67	69	2.9	63	64	1.6	40 - 140	30
Benz(a)anthracene	ND	230	89	90	1.1	85	85	0.0	40 - 140	30
Benzaldehyde	ND	230	36	44	20.0	99	34	97.7	40 - 140	30
Benzo(a)pyrene	ND	130	84	86	2.4	81	80	1.2	40 - 140	30
Benzo(b)fluoranthene	ND	160	87	92	5.6	87	85	2.3	40 - 140	30
Benzo(ghi)perylene	ND	230	92	93	1.1	88	87	1.1	40 - 140	30
Benzo(k)fluoranthene	ND	230	85	84	1.2	78	80	2.5	40 - 140	30
Benzyl butyl phthalate	ND	230	93	95	2.1	88	88	0.0	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	74	80	7.8	77	77	0.0	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	67	73	8.6	75	72	4.1	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	90	93	3.3	88	86	2.3	40 - 140	30
Caprolactam	ND	230	83	83	0.0	68	66	3.0	40 - 140	30
Carbazole	ND	230	86	89	3.4	84	83	1.2	40 - 140	30
Chrysene	ND	230	90	91	1.1	86	86	0.0	40 - 140	30
Dibenz(a,h)anthracene	ND	130	91	92	1.1	86	85	1.2	40 - 140	30
Dibenzofuran	ND	230	80	83	3.7	80	79	1.3	40 - 140	30
Diethyl phthalate	ND	230	86	88	2.3	82	81	1.2	40 - 140	30
Dimethylphthalate	ND	230	84	88	4.7	82	81	1.2	40 - 140	30
Di-n-butylphthalate	ND	670	89	92	3.3	86	84	2.4	40 - 140	30
Di-n-octylphthalate	ND	230	93	95	2.1	89	88	1.1	40 - 140	30
Fluoranthene	ND	230	87	91	4.5	86	87	1.2	40 - 140	30
Fluorene	ND	230	84	88	4.7	83	82	1.2	40 - 140	30
Hexachlorobenzene	ND	130	89	94	5.5	86	86	0.0	40 - 140	30
Hexachlorobutadiene	ND	230	66	72	8.7	73	71	2.8	40 - 140	30
Hexachlorocyclopentadiene	ND	230	49	54	9.7	55	54	1.8	40 - 140	30
Hexachloroethane	ND	130	61	68	10.9	70	66	5.9	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	98	100	2.0	93	92	1.1	40 - 140	30
Isophorone	ND	130	68	72	5.7	70	69	1.4	40 - 140	30
Naphthalene	ND	230	69	74	7.0	73	72	1.4	40 - 140	30
Nitrobenzene	ND	130	73	81	10.4	80	78	2.5	40 - 140	30
N-Nitrosodimethylamine	ND	230	62	69	10.7	70	66	5.9	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	74	82	10.3	81	79	2.5	40 - 140	30
N-Nitrosodiphenylamine	ND	130	84	85	1.2	80	78	2.5	40 - 140	30
Pentachlorophenol	ND	230	81	79	2.5	67	57	16.1	30 - 130	30
Phenanthrene	ND	130	85	87	2.3	84	85	1.2	40 - 140	30
Phenol	ND	230	83	92	10.3	83	85	2.4	30 - 130	30
Pyrene	ND	230	89	92	3.3	88	88	0.0	30 - 130	30
% 2,4,6-Tribromophenol	85	%	92	96	4.3	94	95	1.1	30 - 130	30
% 2-Fluorobiphenyl	82	%	73	79	7.9	77	75	2.6	30 - 130	30
% 2-Fluorophenol	79	%	70	77	9.5	75	73	2.7	30 - 130	30

I,m,r

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Nitrobenzene-d5	80	%	70	77	9.5	77	75	2.6	30 - 130	30
% Phenol-d5	85	%	75	82	8.9	80	79	1.3	30 - 130	30
% Terphenyl-d14	89	%	86	88	2.3	82	81	1.2	30 - 130	30

Comment:

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

QA/QC Batch 612684 (ug/L), QC Sample No: CK66952 (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	36	56	43.5	63			40 - 140	20	l,r
2,4,5-Trichlorophenol	ND	17	58	101	54.1	94			40 - 140	20	r
2,4,6-Trichlorophenol	ND	17	56	93	49.7	89			30 - 130	20	r
2,4-Dinitrotoluene	ND	58	57	102	56.6	94			30 - 130	20	r
2-Methylphenol (o-cresol)	ND	17	57	92	47.0	87			40 - 140	20	r
3&4-Methylphenol (m&p-cresol)	ND	17	54	88	47.9	78			30 - 130	20	r
Hexachlorobenzene	ND	58	59	104	55.2	95			40 - 140	20	r
Hexachlorobutadiene	ND	58	40	60	40.0	76			40 - 140	20	r
Hexachloroethane	ND	58	38	58	41.7	70			40 - 140	20	l,r
Nitrobenzene	ND	58	55	101	59.0	92			40 - 140	20	r
Pentachlorophenol	ND	58	52	93	56.6	77			30 - 130	20	r
Pyridine	ND	83	54	59	8.8	58			40 - 140	20	
% 2,4,6-Tribromophenol	115	%	73	120	48.7	112			15 - 110	20	l,m,r,s
% 2-Fluorobiphenyl	81	%	50	89	56.1	86			30 - 130	20	r
% 2-Fluorophenol	72	%	45	66	37.8	66			15 - 110	20	r
% Nitrobenzene-d5	91	%	54	100	59.7	86			30 - 130	20	r
% Phenol-d5	68	%	46	69	40.0	63			15 - 110	20	r
% Terphenyl-d14	94	%	59	107	57.8	94			30 - 130	20	r

Comment:

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

QA/QC Batch 612260 (ug/kg), QC Sample No: CK66959 (CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	60	66	9.5	69	53	26.2	40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230	55	60	8.7	64	51	22.6	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	44	48	8.7	55	41	29.2	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	65	71	8.8	76	59	25.2	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	69	81	16.0	84	65	25.5	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	73	84	14.0	83	65	24.3	30 - 130	30	
2,4-Dichlorophenol	ND	130	69	75	8.3	78	62	22.9	30 - 130	30	
2,4-Dimethylphenol	ND	230	73	80	9.2	71	58	20.2	30 - 130	30	
2,4-Dinitrophenol	ND	230	<10	<10	NC	32	20	46.2	30 - 130	30	l,m,r
2,4-Dinitrotoluene	ND	130	74	84	12.7	79	64	21.0	30 - 130	30	
2,6-Dinitrotoluene	ND	130	70	80	13.3	78	62	22.9	40 - 140	30	
2-Chloronaphthalene	ND	230	64	70	9.0	75	57	27.3	40 - 140	30	
2-Chlorophenol	ND	230	59	65	9.7	69	51	30.0	30 - 130	30	
2-Methylnaphthalene	ND	230	58	65	11.4	69	54	24.4	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	63	71	11.9	72	57	23.3	40 - 140	30	
2-Nitroaniline	ND	330	104	122	15.9	105	88	17.6	40 - 140	30	
2-Nitrophenol	ND	230	63	72	13.3	75	56	29.0	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	61	66	7.9	67	52	25.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	77	94	19.9	78	67	15.2	40 - 140	30	
3-Nitroaniline	ND	330	85	97	13.2	87	71	20.3	40 - 140	30	

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4,6-Dinitro-2-methylphenol	ND	230	<10	<10	NC	60	36	50.0	30 - 130	30	I,r
4-Bromophenyl phenyl ether	ND	230	70	80	13.3	78	61	24.5	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	76	84	10.0	82	68	18.7	30 - 130	30	
4-Chloroaniline	ND	230	67	72	7.2	72	58	21.5	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	65	74	12.9	75	58	25.6	40 - 140	30	
4-Nitroaniline	ND	230	75	83	10.1	83	67	21.3	40 - 140	30	
4-Nitrophenol	ND	230	62	63	1.6	82	62	27.8	30 - 130	30	
Acenaphthene	ND	230	68	74	8.5	79	61	25.7	30 - 130	30	
Acenaphthylene	ND	130	60	65	8.0	66	52	23.7	40 - 140	30	
Acetophenone	ND	230	52	58	10.9	65	48	30.1	40 - 140	30	
Anthracene	ND	230	71	84	16.8	80	63	23.8	40 - 140	30	
Atrazine	ND	130	55	64	15.1	62	49	23.4	40 - 140	30	
Benz(a)anthracene	ND	230	72	88	20.0	80	64	22.2	40 - 140	30	
Benzaldehyde	ND	230	25	21	17.4	17	11	42.9	40 - 140	30	I,m,r
Benzo(a)pyrene	ND	130	71	84	16.8	76	62	20.3	40 - 140	30	
Benzo(b)fluoranthene	ND	160	73	83	12.8	78	68	13.7	40 - 140	30	
Benzo(ghi)perylene	ND	230	77	92	17.8	74	56	27.7	40 - 140	30	
Benzo(k)fluoranthene	ND	230	68	81	17.4	77	60	24.8	40 - 140	30	
Benzyl butyl phthalate	ND	230	74	88	17.3	83	67	21.3	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	62	68	9.2	72	54	28.6	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	46	50	8.3	59	43	31.4	40 - 140	30	r
Bis(2-ethylhexyl)phthalate	ND	230	73	88	18.6	80	65	20.7	40 - 140	30	
Caprolactam	ND	230	72	80	10.5	73	63	14.7	40 - 140	30	
Carbazole	ND	230	72	86	17.7	80	63	23.8	40 - 140	30	
Chrysene	ND	230	75	89	17.1	83	65	24.3	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	80	95	17.1	83	60	32.2	40 - 140	30	r
Dibenzofuran	ND	230	65	72	10.2	74	59	22.6	40 - 140	30	
Diethyl phthalate	ND	230	72	81	11.8	76	62	20.3	40 - 140	30	
Dimethylphthalate	ND	230	71	81	13.2	76	62	20.3	40 - 140	30	
Di-n-butylphthalate	ND	670	72	85	16.6	80	64	22.2	40 - 140	30	
Di-n-octylphthalate	ND	230	76	92	19.0	80	64	22.2	40 - 140	30	
Fluoranthene	ND	230	69	82	17.2	78	61	24.5	40 - 140	30	
Fluorene	ND	230	68	77	12.4	78	60	26.1	40 - 140	30	
Hexachlorobenzene	ND	130	72	82	13.0	80	65	20.7	40 - 140	30	
Hexachlorobutadiene	ND	230	50	57	13.1	64	47	30.6	40 - 140	30	r
Hexachlorocyclopentadiene	ND	230	39	44	12.0	46	27	52.1	40 - 140	30	I,m,r
Hexachloroethane	ND	130	41	45	9.3	56	40	33.3	40 - 140	30	r
Indeno(1,2,3-cd)pyrene	ND	230	82	98	17.8	82	62	27.8	40 - 140	30	
Isophorone	ND	130	56	63	11.8	65	50	26.1	40 - 140	30	
Naphthalene	ND	230	53	61	14.0	67	50	29.1	40 - 140	30	
Nitrobenzene	ND	130	55	62	12.0	68	50	30.5	40 - 140	30	
N-Nitrosodimethylamine	ND	230	40	44	9.5	55	37	39.1	40 - 140	30	m,r
N-Nitrosodi-n-propylamine	ND	130	57	62	8.4	68	50	30.5	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	68	78	13.7	76	59	25.2	40 - 140	30	
Pentachlorophenol	ND	230	28	33	16.4	88	46	62.7	30 - 130	30	I,r
Phenanthrene	ND	130	70	83	17.0	82	64	24.7	40 - 140	30	
Phenol	ND	230	63	70	10.5	75	54	32.6	30 - 130	30	r
Pyrene	ND	230	69	81	16.0	78	61	24.5	30 - 130	30	
% 2,4,6-Tribromophenol	93	%	79	94	17.3	92	70	27.2	30 - 130	30	
% 2-Fluorobiphenyl	70	%	59	65	9.7	70	55	24.0	30 - 130	30	
% 2-Fluorophenol	69	%	52	60	14.3	66	46	35.7	30 - 130	30	r
% Nitrobenzene-d5	62	%	52	56	7.4	65	48	30.1	30 - 130	30	
% Phenol-d5	71	%	59	66	11.2	73	53	31.7	30 - 130	30	r

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blk		LCS %	LCS D %	LCS RPD	MS %	MS D %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Terphenyl-d14	76	%	65	77	16.9	76	56	30.3	30 - 130	30

Comment:

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

QA/QC Batch 612432 (ug/kg), QC Sample No: CK66110 (CK66950, CK66951, CK66952, CK66953, CK66954, CK66955)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	97	101	4.0	92	96	4.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	94	95	1.1	100	102	2.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	96	96	0.0	103	106	2.9	70 - 130	30
1,1-Dichloroethane	ND	5.0	94	97	3.1	94	97	3.1	70 - 130	30
1,1-Dichloroethene	ND	5.0	94	102	8.2	93	94	1.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	103	103	0.0	103	115	11.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	99	100	1.0	93	104	11.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	105	108	2.8	112	115	2.6	70 - 130	30
1,2-Dibromoethane	ND	5.0	97	101	4.0	105	109	3.7	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	94	98	4.2	94	101	7.2	70 - 130	30
1,2-Dichloroethane	ND	5.0	96	97	1.0	100	105	4.9	70 - 130	30
1,2-Dichloropropane	ND	5.0	94	94	0.0	96	100	4.1	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	92	97	5.3	90	99	9.5	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	92	97	5.3	90	98	8.5	70 - 130	30
1,4-dioxane	ND	100	90	124	31.8	106	106	0.0	70 - 130	30
2-Hexanone	ND	25	88	89	1.1	99	99	0.0	70 - 130	30
4-Methyl-2-pentanone	ND	25	96	93	3.2	104	107	2.8	70 - 130	30
Acetone	ND	10	70	68	2.9	85	89	4.6	70 - 130	30
Benzene	ND	1.0	96	100	4.1	95	101	6.1	70 - 130	30
Bromochloromethane	ND	5.0	95	95	0.0	101	101	0.0	70 - 130	30
Bromodichloromethane	ND	5.0	99	100	1.0	99	106	6.8	70 - 130	30
Bromoform	ND	5.0	104	107	2.8	104	112	7.4	70 - 130	30
Bromomethane	ND	5.0	90	92	2.2	94	91	3.2	70 - 130	30
Carbon Disulfide	ND	5.0	88	92	4.4	86	89	3.4	70 - 130	30
Carbon tetrachloride	ND	5.0	95	104	9.0	86	94	8.9	70 - 130	30
Chlorobenzene	ND	5.0	95	100	5.1	96	100	4.1	70 - 130	30
Chloroethane	ND	5.0	95	104	9.0	90	93	3.3	70 - 130	30
Chloroform	ND	5.0	94	96	2.1	95	97	2.1	70 - 130	30
Chloromethane	ND	5.0	85	88	3.5	86	90	4.5	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	93	97	4.2	98	98	0.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	98	102	4.0	98	107	8.8	70 - 130	30
Cyclohexane	ND	5.0	92	99	7.3	91	95	4.3	70 - 130	30
Dibromochloromethane	ND	3.0	102	106	3.8	104	111	6.5	70 - 130	30
Dichlorodifluoromethane	ND	5.0	85	86	1.2	94	96	2.1	70 - 130	30
Ethylbenzene	ND	1.0	98	105	6.9	96	101	5.1	70 - 130	30
Isopropylbenzene	ND	1.0	97	104	7.0	95	100	5.1	70 - 130	30
m&p-Xylene	ND	2.0	96	103	7.0	95	102	7.1	70 - 130	30
Methyl ethyl ketone	ND	5.0	77	81	5.1	89	88	1.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	93	91	2.2	100	102	2.0	70 - 130	30
Methylacetate	ND	5.0	91	89	2.2	97	97	0.0	70 - 130	30
Methylcyclohexane	ND	5.0	96	102	6.1	89	100	11.6	70 - 130	30
Methylene chloride	ND	5.0	73	74	1.4	77	79	2.6	70 - 130	30
o-Xylene	ND	2.0	96	100	4.1	97	101	4.0	70 - 130	30
Styrene	ND	5.0	99	103	4.0	100	105	4.9	70 - 130	30
Tetrachloroethene	ND	5.0	94	100	6.2	87	96	9.8	70 - 130	30
Toluene	ND	1.0	97	100	3.0	95	102	7.1	70 - 130	30

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
trans-1,2-Dichloroethene	ND	5.0	94	98	4.2	90	95	5.4	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	104	105	1.0	104	113	8.3	70 - 130	30
Trichloroethene	ND	5.0	95	100	5.1	93	99	6.3	70 - 130	30
Trichlorofluoromethane	ND	5.0	95	104	9.0	92	97	5.3	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	87	92	5.6	79	84	6.1	70 - 130	30
Vinyl chloride	ND	5.0	93	96	3.2	92	95	3.2	70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	101	1.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	98	%	101	101	0.0	101	101	0.0	70 - 130	30
% Dibromofluoromethane	93	%	94	90	4.3	95	97	2.1	70 - 130	30
% Toluene-d8	98	%	100	99	1.0	99	100	1.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this Low Level batch.

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

QA/QC Batch 612595 (ug/L), QC Sample No: CK66957 (CK66950 (10X) , CK66951 (10X) , CK66952 (10X) , CK66953 (10X) , CK66954 (10X) , CK66955 (10X) , CK66956 (10X) , CK66957 (10X) , CK66958 (10X) , CK66959 (10X) , CK66960 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	97	96	1.0	103	109	5.7	70 - 130	30
1,2-Dichloroethane	ND	0.60	104	102	1.9	105	111	5.6	70 - 130	30
Benzene	ND	0.70	100	98	2.0	103	109	5.7	70 - 130	30
Carbon tetrachloride	ND	5.0	118	114	3.4	122	129	5.6	70 - 130	30
Chlorobenzene	ND	1.0	103	102	1.0	105	111	5.6	70 - 130	30
Chloroform	ND	5.0	102	101	1.0	106	112	5.5	70 - 130	30
Methyl ethyl ketone	ND	5.0	101	104	2.9	99	106	6.8	70 - 130	30
Tetrachloroethene	ND	1.0	103	103	0.0	107	110	2.8	70 - 130	30
Trichloroethene	ND	5.0	103	100	3.0	107	113	5.5	70 - 130	30
Vinyl chloride	ND	5.0	98	100	2.0	102	110	7.5	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	95	%	102	104	1.9	104	104	0.0	70 - 130	30
% Dibromofluoromethane	98	%	101	101	0.0	104	100	3.9	70 - 130	30
% Toluene-d8	98	%	100	100	0.0	100	99	1.0	70 - 130	30

Comment:

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

QA/QC Batch 612438 (ug/kg), QC Sample No: CK66961 (CK66957, CK66958, CK66959, CK66960, CK66961, CK67067)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	101	112	10.3				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	106	103	2.9				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	103	99	4.0				70 - 130	30
1,1-Dichloroethane	ND	5.0	93	96	3.2				70 - 130	30
1,1-Dichloroethene	ND	5.0	79	89	11.9				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	120	117	2.5				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	120	117	2.5				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	118	109	7.9				70 - 130	30
1,2-Dibromoethane	ND	5.0	112	111	0.9				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	108	108	0.0				70 - 130	30
1,2-Dichloroethane	ND	5.0	113	112	0.9				70 - 130	30
1,2-Dichloropropane	ND	5.0	110	110	0.0				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	110	110	0.0				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	106	108	1.9				70 - 130	30
1,4-dioxane	ND	100	107	119	10.6				70 - 130	30

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
2-Hexanone	ND	25	111	103	7.5				70 - 130	30
4-Methyl-2-pentanone	ND	25	112	102	9.3				70 - 130	30
Acetone	ND	10	59	61	3.3				70 - 130	30
Benzene	ND	1.0	104	104	0.0				70 - 130	30
Bromochloromethane	ND	5.0	97	105	7.9				70 - 130	30
Bromodichloromethane	ND	5.0	112	110	1.8				70 - 130	30
Bromoform	ND	5.0	117	116	0.9				70 - 130	30
Bromomethane	ND	5.0	65	72	10.2				70 - 130	30
Carbon Disulfide	ND	5.0	77	83	7.5				70 - 130	30
Carbon tetrachloride	ND	5.0	105	114	8.2				70 - 130	30
Chlorobenzene	ND	5.0	103	104	1.0				70 - 130	30
Chloroethane	ND	5.0	76	86	12.3				70 - 130	30
Chloroform	ND	5.0	99	108	8.7				70 - 130	30
Chloromethane	ND	5.0	100	105	4.9				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	99	109	9.6				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	109	109	0.0				70 - 130	30
Cyclohexane	ND	5.0	99	108	8.7				70 - 130	30
Dibromochloromethane	ND	3.0	113	114	0.9				70 - 130	30
Dichlorodifluoromethane	ND	5.0	104	110	5.6				70 - 130	30
Ethylbenzene	ND	1.0	103	106	2.9				70 - 130	30
Isopropylbenzene	ND	1.0	108	112	3.6				70 - 130	30
m&p-Xylene	ND	2.0	102	105	2.9				70 - 130	30
Methyl ethyl ketone	ND	5.0	96	94	2.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	85	89	4.6				70 - 130	30
Methylacetate	ND	5.0	79	81	2.5				70 - 130	30
Methylcyclohexane	ND	5.0	110	112	1.8				70 - 130	30
Methylene chloride	ND	5.0	58	65	11.4				70 - 130	30
o-Xylene	ND	2.0	102	106	3.8				70 - 130	30
Styrene	ND	5.0	107	109	1.9				70 - 130	30
Tetrachloroethene	ND	5.0	114	114	0.0				70 - 130	30
Toluene	ND	1.0	103	103	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	84	91	8.0				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	111	110	0.9				70 - 130	30
Trichloroethene	ND	5.0	101	103	2.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	92	101	9.3				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	80	87	8.4				70 - 130	30
Vinyl chloride	ND	5.0	92	100	8.3				70 - 130	30
% 1,2-dichlorobenzene-d4	95	%	102	100	2.0				70 - 130	30
% Bromofluorobenzene	103	%	104	104	0.0				70 - 130	30
% Dibromofluoromethane	104	%	103	112	8.4				70 - 130	30
% Toluene-d8	95	%	100	100	0.0				70 - 130	30

Comment:

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

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

QA/QC Batch 612438H (ug/kg), QC Sample No: CK66961 50X (CK67068 (50X))

Volatiles - Soil (High Level)

1,1,1-Trichloroethane	ND	250	110	110	0.0	106	106	0.0	70 - 130	30
1,1,1,2-Tetrachloroethane	ND	250	109	113	3.6	110	111	0.9	70 - 130	30
1,1,2-Trichloroethane	ND	250	107	110	2.8	105	110	4.7	70 - 130	30
1,1-Dichloroethane	ND	250	101	99	2.0	98	97	1.0	70 - 130	30
1,1-Dichloroethene	ND	250	81	82	1.2	82	80	2.5	70 - 130	30

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichlorobenzene	ND	250	132	137	3.7	127	133	4.6	70 - 130	30	I,m
1,2,4-Trichlorobenzene	ND	250	132	135	2.2	122	133	8.6	70 - 130	30	I,m
1,2-Dibromo-3-chloropropane	ND	250	122	130	6.3	120	125	4.1	70 - 130	30	
1,2-Dibromoethane	ND	250	117	120	2.5	114	117	2.6	70 - 130	30	
1,2-Dichlorobenzene	ND	250	117	120	2.5	113	116	2.6	70 - 130	30	
1,2-Dichloroethane	ND	250	119	121	1.7	116	118	1.7	70 - 130	30	
1,2-Dichloropropane	ND	250	116	119	2.6	111	114	2.7	70 - 130	30	
1,3-Dichlorobenzene	ND	250	119	123	3.3	115	117	1.7	70 - 130	30	
1,4-Dichlorobenzene	ND	250	117	118	0.9	112	114	1.8	70 - 130	30	
1,4-dioxane	ND	5000	118	116	1.7	100	105	4.9	70 - 130	30	
2-Hexanone	ND	1300	105	114	8.2	113	116	2.6	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	105	110	4.7	107	108	0.9	70 - 130	30	
Acetone	ND	500	49	55	11.5	59	61	3.3	70 - 130	30	I,m
Benzene	ND	250	113	114	0.9	108	109	0.9	70 - 130	30	
Bromochloromethane	ND	250	104	102	1.9	101	104	2.9	70 - 130	30	
Bromodichloromethane	ND	250	115	118	2.6	106	111	4.6	70 - 130	30	
Bromoform	ND	250	115	122	5.9	102	110	7.5	70 - 130	30	
Bromomethane	ND	250	50	51	2.0	50	52	3.9	70 - 130	30	I,m
Carbon Disulfide	ND	250	78	76	2.6	76	74	2.7	70 - 130	30	
Carbon tetrachloride	ND	250	112	110	1.8	103	103	0.0	70 - 130	30	
Chlorobenzene	ND	250	113	115	1.8	106	110	3.7	70 - 130	30	
Chloroethane	ND	250	29	28	3.5	29	27	7.1	70 - 130	30	I,m
Chloroform	ND	250	108	105	2.8	105	105	0.0	70 - 130	30	
Chloromethane	ND	250	102	102	0.0	109	105	3.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	109	108	0.9	107	105	1.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	115	117	1.7	107	109	1.9	70 - 130	30	
Cyclohexane	ND	250	110	109	0.9	111	110	0.9	70 - 130	30	
Dibromochloromethane	ND	150	118	118	0.0	104	110	5.6	70 - 130	30	
Dichlorodifluoromethane	ND	250	104	104	0.0	132	127	3.9	70 - 130	30	m
Ethylbenzene	ND	250	114	116	1.7	108	110	1.8	70 - 130	30	
Isopropylbenzene	ND	250	119	119	0.0	116	116	0.0	70 - 130	30	
m&p-Xylene	ND	250	113	116	2.6	108	110	1.8	70 - 130	30	
Methyl ethyl ketone	ND	250	93	92	1.1	101	99	2.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	88	88	0.0	88	88	0.0	70 - 130	30	
Methylacetate	ND	250	79	81	2.5	84	81	3.6	70 - 130	30	
Methylcyclohexane	ND	250	125	126	0.8	120	122	1.7	70 - 130	30	
Methylene chloride	ND	250	62	62	0.0	64	61	4.8	70 - 130	30	I,m
o-Xylene	ND	250	114	115	0.9	109	111	1.8	70 - 130	30	
Styrene	ND	250	116	120	3.4	111	114	2.7	70 - 130	30	
Tetrachloroethene	ND	250	128	128	0.0	122	124	1.6	70 - 130	30	
Toluene	ND	250	111	113	1.8	107	108	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	89	89	0.0	89	87	2.3	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	114	116	1.7	106	110	3.7	70 - 130	30	
Trichloroethene	ND	250	111	113	1.8	108	109	0.9	70 - 130	30	
Trichlorofluoromethane	ND	250	43	39	9.8	41	39	5.0	70 - 130	30	I,m
Trichlorotrifluoroethane	ND	250	84	86	2.4	88	84	4.7	70 - 130	30	
Vinyl chloride	ND	250	92	92	0.0	99	95	4.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	100	101	1.0	103	102	1.0	70 - 130	30	
% Bromofluorobenzene	103	%	102	103	1.0	101	103	2.0	70 - 130	30	
% Dibromofluoromethane	101	%	102	103	1.0	105	106	0.9	70 - 130	30	
% Toluene-d8	94	%	101	101	0.0	99	100	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCK66950

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

Comment:

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

QA/QC Batch 612788 (ug/L), QC Sample No: CK66970 (CK66961 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	95	94	1.1	125	119	4.9	70 - 130	30
1,2-Dichloroethane	ND	0.60	103	101	2.0	120	117	2.5	70 - 130	30
Benzene	ND	0.70	99	98	1.0	127	122	4.0	70 - 130	30
Carbon tetrachloride	ND	5.0	111	112	0.9	128	129	0.8	70 - 130	30
Chlorobenzene	ND	1.0	101	101	0.0	120	116	3.4	70 - 130	30
Chloroform	ND	5.0	99	100	1.0	126	120	4.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	99	95	4.1	118	109	7.9	70 - 130	30
Tetrachloroethene	ND	1.0	102	101	1.0	117	114	2.6	70 - 130	30
Trichloroethene	ND	5.0	101	102	1.0	126	122	3.2	70 - 130	30
Vinyl chloride	ND	5.0	93	96	3.2	138	133	3.7	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	98	1.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	97	%	102	104	1.9	107	104	2.8	70 - 130	30
% Dibromofluoromethane	102	%	100	99	1.0	100	99	1.0	70 - 130	30
% Toluene-d8	99	%	102	100	2.0	101	102	1.0	70 - 130	30

Comment:

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

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

QA/QC Batch 612627 (ug/kg), QC Sample No: CK67434 (CK66956)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	90	98	8.5				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	96	99	3.1				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	93	97	4.2				70 - 130	30
1,1-Dichloroethane	ND	5.0	86	92	6.7				70 - 130	30
1,1-Dichloroethene	ND	5.0	85	95	11.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	103	115	11.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	95	107	11.9				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	112	119	6.1				70 - 130	30
1,2-Dibromoethane	ND	5.0	98	103	5.0				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	91	99	8.4				70 - 130	30
1,2-Dichloroethane	ND	5.0	91	95	4.3				70 - 130	30
1,2-Dichloropropane	ND	5.0	88	91	3.4				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	89	99	10.6				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	89	98	9.6				70 - 130	30
1,4-dioxane	ND	100	93	111	17.6				70 - 130	30
2-Hexanone	ND	25	92	95	3.2				70 - 130	30
4-Methyl-2-pentanone	ND	25	95	96	1.0				70 - 130	30
Acetone	ND	10	67	73	8.6				70 - 130	30
Benzene	ND	1.0	91	97	6.4				70 - 130	30
Bromochloromethane	ND	5.0	86	93	7.8				70 - 130	30
Bromodichloromethane	ND	5.0	94	98	4.2				70 - 130	30
Bromoform	ND	5.0	104	111	6.5				70 - 130	30
Bromomethane	ND	5.0	83	85	2.4				70 - 130	30
Carbon Disulfide	ND	5.0	80	87	8.4				70 - 130	30
Carbon tetrachloride	ND	5.0	88	98	10.8				70 - 130	30
Chlorobenzene	ND	5.0	92	100	8.3				70 - 130	30

QA/QC Data

SDG I.D.: GCK66950

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Chloroethane	ND	5.0	85	94	10.1				70 - 130	30
Chloroform	ND	5.0	87	93	6.7				70 - 130	30
Chloromethane	ND	5.0	81	88	8.3				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	90	96	6.5				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	93	99	6.3				70 - 130	30
Cyclohexane	ND	5.0	86	94	8.9				70 - 130	30
Dibromochloromethane	ND	3.0	101	108	6.7				70 - 130	30
Dichlorodifluoromethane	ND	5.0	80	89	10.7				70 - 130	30
Ethylbenzene	ND	1.0	95	103	8.1				70 - 130	30
Isopropylbenzene	ND	1.0	94	104	10.1				70 - 130	30
m&p-Xylene	ND	2.0	93	103	10.2				70 - 130	30
Methyl ethyl ketone	ND	5.0	79	83	4.9				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	87	88	1.1				70 - 130	30
Methylacetate	ND	5.0	86	87	1.2				70 - 130	30
Methylcyclohexane	ND	5.0	86	97	12.0				70 - 130	30
Methylene chloride	ND	5.0	67	71	5.8				70 - 130	30
o-Xylene	ND	2.0	94	103	9.1				70 - 130	30
Styrene	ND	5.0	96	104	8.0				70 - 130	30
Tetrachloroethene	ND	5.0	86	96	11.0				70 - 130	30
Toluene	ND	1.0	90	98	8.5				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	85	93	9.0				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	98	104	5.9				70 - 130	30
Trichloroethene	ND	5.0	87	97	10.9				70 - 130	30
Trichlorofluoromethane	ND	5.0	86	97	12.0				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	76	87	13.5				70 - 130	30
Vinyl chloride	ND	5.0	86	94	8.9				70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	98	99	1.0				70 - 130	30
% Bromofluorobenzene	95	%	99	99	0.0				70 - 130	30
% Dibromofluoromethane	92	%	95	94	1.1				70 - 130	30
% Toluene-d8	96	%	99	98	1.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

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

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

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

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

s = This parameter is outside laboratory Blank Surrogate 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
 February 23, 2022

Wednesday, February 23, 2022

Criteria: NY: 375, 375COM, 375RS

State: NY

Sample Criteria Exceedances Report

GCK66950 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66950	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	15	2.3	3.3	3.3	ug/Kg
CK66950	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	22	2.3	3.3	3.3	ug/Kg
CK66951	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1100	250	1000	1000	ug/Kg
CK66951	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1100	250	1000	1000	ug/Kg
CK66951	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	610	250	500	500	ug/Kg
CK66951	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	250	1000	1000	ug/Kg
CK66951	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	840	250	800	800	ug/Kg
CK66951	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	250	1000	1000	ug/Kg
CK66951	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	610	250	500	500	ug/Kg
CK66951	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.4	2.2	3.3	3.3	ug/Kg
CK66951	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.5	2.2	3.3	3.3	ug/Kg
CK66951	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	51.8	0.6	50	50	mg/kg
CK66951	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.39	0.03	0.18	0.18	mg/Kg
CK66951	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	274	0.32	63	63	mg/Kg
CK66951	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	175	0.6	109	109	mg/Kg
CK66952	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	600	270	500	500	ug/Kg
CK66952	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	600	270	500	500	ug/Kg
CK66952	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	19	2.3	3.3	3.3	ug/Kg
CK66952	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	21	2.3	3.3	3.3	ug/Kg
CK66952	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.21	0.03	0.18	0.18	mg/Kg
CK66952	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	131	0.36	63	63	mg/Kg
CK66953	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	14	2.2	3.3	3.3	ug/Kg
CK66953	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	7.4	2.2	3.3	3.3	ug/Kg
CK66953	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	2.60	0.38	2.5	2.5	mg/Kg
CK66953	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	2.60	0.38	2.5	2.5	mg/Kg
CK66953	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	272	0.38	63	63	mg/Kg
CK66953	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	994	7.7	109	109	mg/Kg
CK66954	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1600	260	1000	1000	ug/Kg
CK66954	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1100	260	500	500	ug/Kg
CK66954	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1900	260	1000	1000	ug/Kg
CK66954	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1600	260	1000	1000	ug/Kg
CK66954	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1500	260	1000	1000	ug/Kg
CK66954	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1500	260	1000	1000	ug/Kg
CK66954	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1900	260	1000	1000	ug/Kg
CK66954	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	500	500	ug/Kg
CK66954	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1900	260	1000	1000	ug/Kg
CK66954	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	260	1000	1000	ug/Kg
CK66954	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	260	1000	1000	ug/Kg
CK66954	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1900	260	1000	1000	ug/Kg

Wednesday, February 23, 2022

Criteria: NY: 375, 375COM, 375RS

State: NY

Sample Criteria Exceedances Report

GCK66950 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66954	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	260	800	800	ug/Kg
CK66954	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.9	2.3	3.3	3.3	ug/Kg
CK66954	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	24	2.3	3.3	3.3	ug/Kg
CK66954	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.2	2.3	3.3	3.3	ug/Kg
CK66954	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	561	0.37	400	400	mg/Kg
CK66954	BA-SM	Barium	NY / 375-6.8 Metals / Residential	561	0.37	350	350	mg/Kg
CK66954	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	561	0.37	350	350	mg/Kg
CK66954	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.24	0.03	0.18	0.18	mg/Kg
CK66954	PB-SM	Lead	NY / 375-6.8 Metals / Residential	447	0.37	400	400	mg/Kg
CK66954	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	447	0.37	63	63	mg/Kg
CK66954	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	355	0.7	109	109	mg/Kg
CK66955	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1200	280	1000	1000	ug/Kg
CK66955	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1500	280	1000	1000	ug/Kg
CK66955	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1200	280	1000	1000	ug/Kg
CK66955	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1200	280	1000	1000	ug/Kg
CK66955	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	280	1000	1000	ug/Kg
CK66955	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1500	280	1000	1000	ug/Kg
CK66955	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	600	280	500	500	ug/Kg
CK66955	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	280	1000	1000	ug/Kg
CK66955	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	280	1000	1000	ug/Kg
CK66955	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	280	800	800	ug/Kg
CK66955	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	280	1000	1000	ug/Kg
CK66955	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	600	280	500	500	ug/Kg
CK66955	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	280	1000	1000	ug/Kg
CK66955	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	3.9	2.4	3.3	3.3	ug/Kg
CK66955	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	64.9	0.8	50	50	mg/kg
CK66955	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.21	0.03	0.18	0.18	mg/Kg
CK66955	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	131	0.39	63	63	mg/Kg
CK66955	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	136	0.8	109	109	mg/Kg
CK66956	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	7.1	2.2	3.3	3.3	ug/Kg
CK66956	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	55.8	0.7	50	50	mg/kg
CK66956	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.38	0.03	0.18	0.18	mg/Kg
CK66956	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	238	0.33	63	63	mg/Kg
CK66956	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	185	0.7	109	109	mg/Kg
CK66957	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	58.2	0.7	50	50	mg/kg
CK66957	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	173	0.33	63	63	mg/Kg
CK66957	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	175	0.7	109	109	mg/Kg
CK66958	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	17	2.3	3.3	3.3	ug/Kg
CK66958	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	25	2.3	3.3	3.3	ug/Kg

Wednesday, February 23, 2022

Criteria: NY: 375, 375COM, 375RS

State: NY

Sample Criteria Exceedances Report

GCK66950 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK66958	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.4	2.3	3.3	3.3	ug/Kg
CK66958	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	3600	3.3	400	400	mg/Kg
CK66958	BA-SM	Barium	NY / 375-6.8 Metals / Residential	3600	3.3	350	350	mg/Kg
CK66958	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	3600	3.3	350	350	mg/Kg
CK66958	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	1830	3.3	1000	1000	mg/Kg
CK66958	PB-SM	Lead	NY / 375-6.8 Metals / Residential	1830	3.3	400	400	mg/Kg
CK66958	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	1830	3.3	63	63	mg/Kg
CK66958	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	1640	6.7	109	109	mg/Kg
CK66959	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	31.6	0.40	30		mg/Kg
CK66959	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	65.9	0.40	63	63	mg/Kg
CK66960	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1100	260	1000	1000	ug/Kg
CK66960	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	760	260	500	500	ug/Kg
CK66960	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1400	260	1000	1000	ug/Kg
CK66960	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	260	1000	1000	ug/Kg
CK66960	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1100	260	1000	1000	ug/Kg
CK66960	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1400	260	1000	1000	ug/Kg
CK66960	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	1000	1000	ug/Kg
CK66960	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1000	260	800	800	ug/Kg
CK66960	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	260	1000	1000	ug/Kg
CK66960	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	260	1000	1000	ug/Kg
CK66960	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	760	260	500	500	ug/Kg
CK66960	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	1000	1000	ug/Kg
CK66960	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.75	0.03	0.18	0.18	mg/Kg
CK66960	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	83.7	0.38	63	63	mg/Kg
CK66961	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	237	0.38	63	63	mg/Kg
CK66961	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	151	0.8	109	109	mg/Kg

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



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Analysis Comments

February 23, 2022

SDG I.D.: GCK66950

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

Herbicide Narration

AU-ECD12 02/15/22-1: CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66959, CK66960

Preceding CC 215B130 - 2,4-DB (12) 16%H (15%), Dinoseb 17%L (15%)

Succeeding CC 215B143 - 2,4-DB (12) 16%H (15%), Dinoseb 21%L (15%)

Samples: CK66955, CK66956, CK66957, CK66958, CK66961

Preceding CC 215B156 - 2,4-D (8) 20%H (15%), 2,4-DB (12) 36%H (15%), Dichloroprop (7) 28%H (15%)

Succeeding CC 215B167 - 2,4,5-T (11) 33%H (15%), 2,4,5-TP (10) 38%H (15%), 2,4-D (8) 32%H (15%), 2,4-DB (12) 55%H (15%), Dichloroprop (7) 45%H (15%), Dinoseb 20%H (15%)

PEST Narration

AU-ECD35 02/16/22-1: CK66951, CK66954, CK66955, CK66957, CK66958, CK66959, CK66961

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66961

Preceding CC 216B020 - None.

Succeeding CC 216B033 - Methoxychlor 22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CK66951, CK66954, CK66955, CK66957, CK66958, CK66959

Preceding CC 216B033 - Methoxychlor 22%L (20%)

Succeeding CC 216B048 - Methoxychlor 24%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 02/21/22-1: CK66952, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66952, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961

Preceding CC 221B004 - % DCBP 21%H (20%), Endrin aldehyde 22%H (20%)

Succeeding CC 221B028 - None.

AU-ECD7 02/16/22-1: CK66950, CK66952, CK66953, CK66956, CK66960

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66960

Preceding CC 216B020 - Endrin aldehyde 21%L (20%)

Succeeding CC 216B033 - Methoxychlor 22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CK66950, CK66952, CK66953, CK66956

Preceding CC 216B033 - Methoxychlor 22%L (20%)

Succeeding CC 216B047 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 02/17/22-1: CK66950, CK66951

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CK66950, CK66951

Preceding CC 217B004 - b-BHC 27%L (20%)

Succeeding CC 217B024 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.



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Analysis Comments

February 23, 2022

SDG I.D.: GCK66950

SVOA Narration

CHEM07 02/18/22-1: CK66950, CK66951, CK66952, CK66953, CK66954, CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.047 (0.05), Hexachlorobenzene 0.069 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: % 2,4,6-Tribromophenol 0.047 (0.05)

The following Continuing Calibration compounds did not meet % deviation criteria: % 2,4,6-Tribromophenol 38%H (30%)

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

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.081 (0.1)

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

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

CHEM22 02/15/22-2: CK66955, CK66956, CK66957, CK66958, CK66959, CK66960, CK66961

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.083 (0.1)

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

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.087 (0.1)

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

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

CHEM28 02/15/22-1: CK66950, CK66951, CK66952, CK66953, CK66954

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.079 (0.1)

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

The following Continuing Calibration compounds did not meet % deviation criteria: 2-Nitroaniline 33%L (30%)

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

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.079 (0.1)

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

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

VOA Narration

CHEM18 02/15/22-1: CK66957, CK66958, CK66959, CK66960, CK66961, CK67067, CK67068



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



Analysis Comments

February 23, 2022

SDG I.D.: GCK66950

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 35% (20%), Bromoform 22% (20%), Methylene chloride 38% (20%)

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

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 40%L (30%), Methylene chloride 36%L (30%)

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

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

CHEM31 02/15/22-1: CK66950, CK66951, CK66952, CK66953, CK66954, CK66955

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 23% (20%), Acetone 35% (20%), Chloroethane 24% (20%), Methylene chloride 39% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Tetrachloroethene 0.170 (0.2)

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

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

CHEM31 02/16/22-1: CK66956

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 23% (20%), Acetone 35% (20%), Chloroethane 24% (20%), Methylene chloride 39% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Tetrachloroethene 0.170 (0.2)

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

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 31%L (30%), Methylene chloride 32%L (30%)

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

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



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NY Temperature Narration

February 23, 2022

SDG I.D.: GCK66950

The samples in this delivery group were received at 1.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



NY/NJ/PA CHAIN OF CUSTODY RECORD

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

Customer: **AES**

Address: **42 West Avenue
 Patchogue, NY 11772**

Project: **EAST SIDE COASTAL RESILIENCY Project P.O.: 0897**

Report to: **AES**

Invoice to: **AES**

QUOTE #: **AE090921BA**

Coolant: IPK ICE No No
 Temp: °C Pg 1 of 2
 Contact Options:

Phone:
 Fax:
 Email: **pendeneng@phoenixlabs.com**
 empendcrgast@aol.com

This section MUST be completed with Bottle Quantities.

Sampler's Signature	Client Sample - Information - Identification	Date	Analysis Request
<i>[Signature]</i>	TAH/TCL TMO	2/14/22	TAH/TCL TMO
	HERBS		HERBS
	FRLC TCLR		FRLC TCLR
	TPH PRD GRD		TPH PRD GRD

PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
00950	BH50	S	2.11.22	11:50	X
00951	BH51			12:00	X
00952	BH52			12:35	X
00953	BH53			12:55	X
00954	BH54			1:05	X
00955	BH55			1:20	X
00956	BH56			1:30	X
00957	BH57			1:40	X
00958	BH58				X
00959	BH59			2:00	X
00960	BH60			2:05	X

Relinquished by: *[Signature]* Accepted by: *[Signature]* Date: **2.14.22** Time: **11:22**

[Signature] Date: **2.14.22** Time: **15:54**

Comments, Special Requirements or Regulations: **Reach F**

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

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

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

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

NY TOGS GW CP-51 SOIL 375SCO Unrestricted Soil 375SCO Residential Soil Residential Restricted Soil 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**



NY/NJ/PA CHAIN OF CUSTODY RECORD

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

Customer: AES
Address: 42 West Avenue
Patchogue, NY 11772

Project: EAST SIDE COASTAL RESILIENCY Project P.O.: 0897
Report to: AES
Invoice to: AES
QUOTE #: AE090921A

Coolant: IPK ICE
Cooler: Yes No
Temp | °C Pg 2 of 2

Contact Options:
Phone:
Fax:
Email: pendycheveng@phoenixlab.com
onpendycheveng@stpaol.com

This section MUST be completed with Bottle Quantities.

Table with columns: Sampler's Signature, Matrix Code, Customer Sample Identification, Sample Matrix, Date Sampled, Time Sampled, Analysis Request. Includes handwritten signatures and data entries like 'S', '2.11.22 2:10', and '21'.

Relinquished by: [Signature]
Accepted by: [Signature]

Date: 2.14.22 12:22
2.14.22 15.54

Turnaround: 1 Day, 2 Days, 3 Days, 5 Days, 10 Days, Other. Includes checkboxes for Res. Criteria, Non-Res. Criteria, Impact to GW Soil, Cleanup Criteria, Impact to GW soil screen, and GW Criteria.

Comments, Special Requirements or Regulations:
Reach F

Data Format: Phoenix Std Report, Excel, PDF, GIS/Key. Data Package: NJ Reduced Deliv., NY Enhanced (ASP B). Data Format: Phoenix Std Report, Excel, PDF, GIS/Key. Data Package: NJ Reduced Deliv., NY Enhanced (ASP B).

State Samples Collected? NY