

Field Sampling Summary Report #60

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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On behalf of:

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AES Project No. 0897

REVISION #2
FEBRUARY 5th, 2025

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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, 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 9 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 40 feet below grade (ftbg).

2.0 FIELD ACTIVITIES

AES performed soil sampling at the site on January 23rd & 24th, 2025. A total of ten soil samples were collected. Soil samples were collected from borings advanced in the work areas. A description of soil samples collected is shown below:

- Samples BH-116 through BH-119 were collected from borings advanced to 15 feet below grade (ftbg) surface in Ballfields 7 & 8 areas to be excavated for bulkhead construction.
- The samples identified as DEP-115A through DEP-115E and DEP-123 were collected from borings advanced to 20 ftbg in Ballfields 7 & 8 areas to be excavated for sewer installation

Soil boring locations are shown on Figure 2. Site photographs are included in Attachment I. Soil boring logs are included in Appendix A.

2.1 Soil Sampling and Analysis

Soil samples 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 sampling location and submitted for laboratory analysis.

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)

Laboratory analysis is included in Appendix B.

2.2 Analytical Results

Analytical laboratory results indicated all samples collected contained compounds in concentrations exceeding the NYSDEC Part 375 Commercial Soil Cleanup Objectives (CSCOs) and two samples (BH-117 and DEP-115B) contained concentrations of lead exceeding the RCRA Hazardous Waste Characteristic Regulatory Level. Compound exceedances are shown on Tables 1 and 2.

Comments:

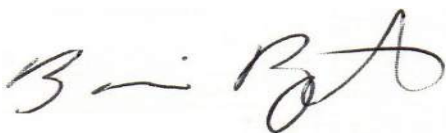
- Analytical results compared to applicable criteria are presented in Tables 1 and 2. All ten soil samples collected exhibited exceedances of CSCOs. Exceedances of CSCOs are highlighted in yellow on Table 1. Material exceeding CSCOs should not be reused as backfill on-site and should be transported off-site for disposal at a permitted disposal facility.
- The TCLP Lead result exceeded the RCRA Hazardous Waste Characteristic Regulatory Level of 5 milligrams per liter (mg/L) in soil samples BH-117 at a concentration of 8.33 mg/L and DEP-115B at a concentration of 5.2 mg/L. TCLP results are summarized in Table 2.

3.0 CONCLUSIONS AND RECOMMENDATIONS

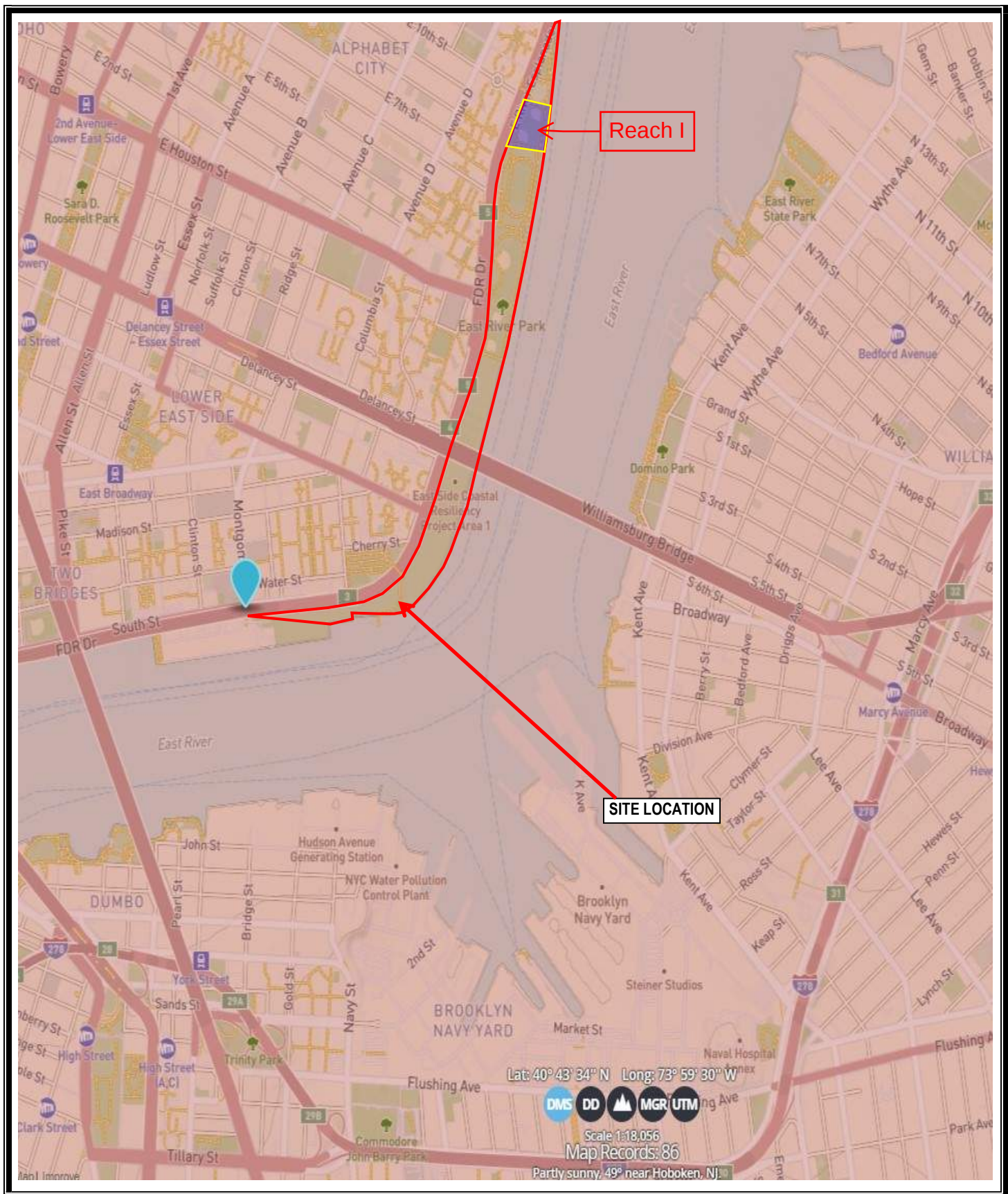
Based on review and evaluation of analytical data and field screening, the following findings, conclusions and recommendations are presented:

- Laboratory analytical results indicated soil samples BH-117 and DEP-115B exhibited evidence of hazardous waste characteristics for toxicity as discussed above and identified in Table 2. 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 concentrations detected in soil samples may be attributed to the presence of historic fill material in the subsurface.
- Contamination was found in all soil samples collected as shown on Tables 1 and 2. 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

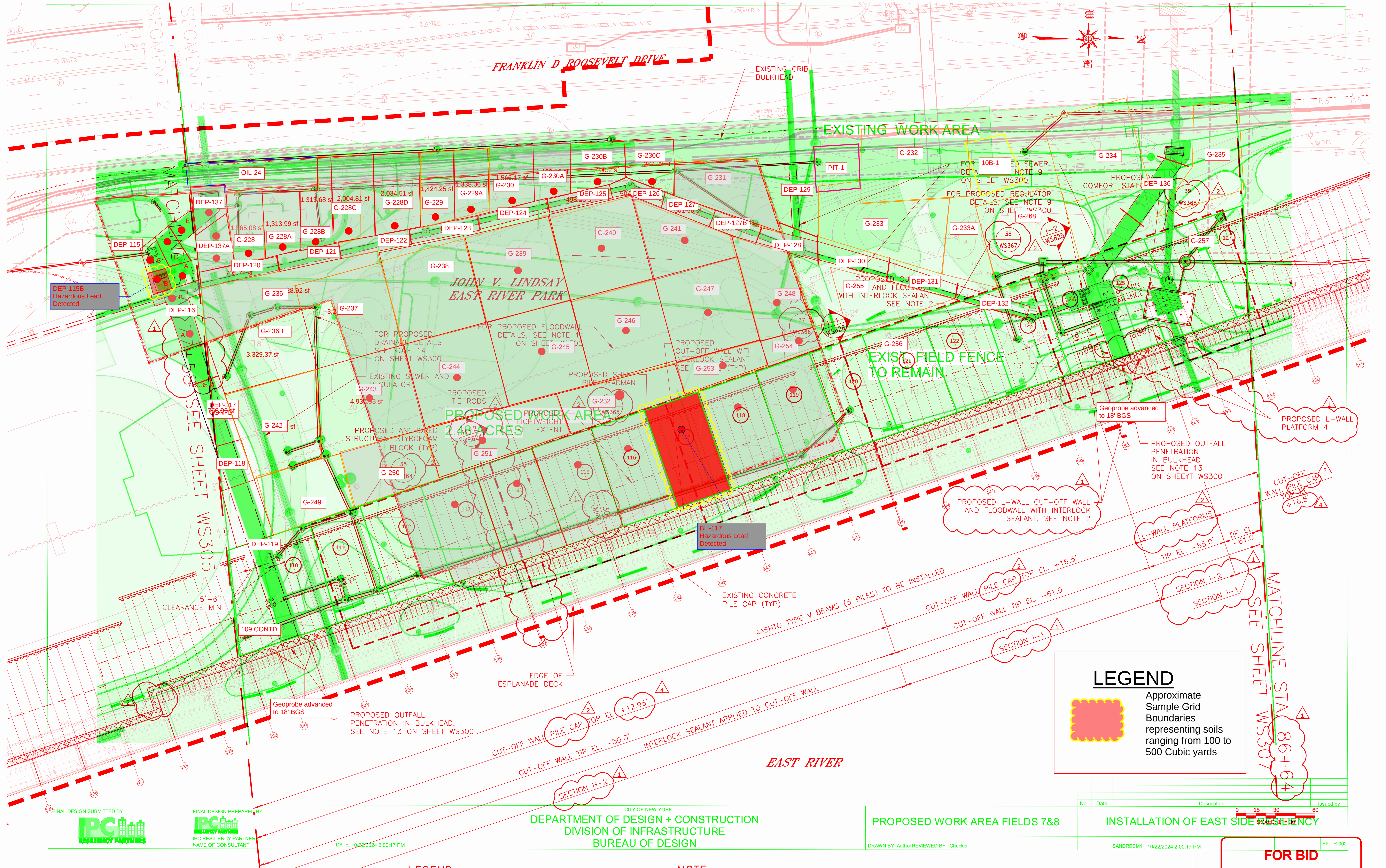


Site Location Map
East Side Coastal Resiliency
From Montgomery Street to 15th Street
New York, NY

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

Figure 1
 American Environmental
 Solutions, Inc.

DRAFT MASS MAILING #2 SUBMISSION 9/19/19



TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

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

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

WATERFRONT STRUCTURAL PLAN
SEGMENT 3 - REACH I
STA. 77+58 - 86+64
CH2M
DRAWN BY
SANDRESM1-WS306-04.DWG
CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN
CAPITAL PROJECT NO. SANDRESM1 9/19/19
SHEET 732 OF 2791
WS306

TABLES

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

TABLE 1: SUMMARY OF SOIL ANALYSIS - SAMPLES COLLECTED 1/23-1/24/2025

Parameter	Compounds Detected	Unit	NYSDEC Part 375 Commercial Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives	BH-116	BH-117	BH-118	BH-119	DEP-123	DEP-115A	DEP-115B	DEP-115C	DEP-115D	DEP-115E
PCBs	None detected	ppm	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides	4,4-DDD	ppm	92	13	ND	ND	0.011	0.028	ND	ND	ND	ND	ND	ND
	4,4-DDE	ppm	62	8.9	ND	ND	0.018	0.054	ND	ND	0.0067	ND	0.024	0.011
	4,4-DDT	ppm	47	7.9	0.0047	ND	0.045	0.065	ND	ND	ND	ND	0.03	0.014
	Aluminum	ppm	NS	NS	8830	4970	5620	6500	7960	9040	8630	4180	8310	5900
TAL Metals	Antimony	ppm	NS	NS	ND	ND	ND	ND	ND	ND	5.8	ND	ND	ND
	Arsenic	ppm	16	16	3.54	5.94	7.16	10.1	3.44	3.15	33.9	2.58	4.24	5.93
	Barium	ppm	400	400	321	558	190	275	50.6	159	839	97.4	120	150
	Beryllium	ppm	590	72	.57	ND	.35	.35	.49	.39	.65	ND	.41	.33
	Cadmium	ppm	9.3	4.3	1.02	.69	.71	1.04	ND	ND	2.54	ND	.39	.57
	Calcium	ppm	NS	NS	11,500	56,900	35,80	10,900	3,510	29,900	6690	91,800	2860	9650
	Chromium	ppm	1500	180	25.7	12.2	17.7	26.7	23.2	14.9	59.4	8.22	18.1	13.7
	Hexavalent Chromium	ppm	400	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trivalent Chromium	ppm	1500	180	25.7	12.2	17.7	26.7	23.2	14.9	59.4	8.22	18.1	13.7
	Cobalt	ppm	NS	NS	10.1	4.26	6.32	6.76	9.31	6.06	8.96	3.38	6.23	6.04
	Copper	ppm	270	270	46.1	63.8	86.7	98.7	14.9	16.5	268	29.5	38.2	56.9
	Iron	ppm	NS	NS	24,600	7,340	17,100	37,600	11,900	10,900	30,500	8,480	14,500	13,300
	Lead	ppm	1000	400	323	5050	260	339	75.9	145	1100	133	212	327
	Manganese	ppm	10,000	2000	426	263	241	276	124	259	222	178	305	229
	Magnesium	ppm	NS	NS	8,390	6280	5720	4210	2930	25,200	5310	6350	5920	2920
	Mercury	ppm	2.8	0.81	0.58	.75	1.42	4.95	.13	.36	4.47	.83	.88	1.13
	Nickel	ppm	310	310	17.6	19.6	16.6	16.9	18.2	34.1	35.9	11.9	18.7	16.7
	Silver	ppm	1500	180	ND	ND	ND	ND	ND	ND	9.24	ND	ND	ND
	Sodium	ppm	NS	NS	347	841	296	788	366	731	5270	239	304	763
	Potassium	ppm	NS	NS	1410	851	1140	1770	984	1030	2320	998	1230	1340
	Vanadium	ppm	NS	NS	37.9	17.3	23.3	22.2	25.1	19.2	40.3	19.8	24.8	22
	Zinc	ppm	10,000	10,000	282	444	209	461	78.2	95.6	932	87.3	134	209
Semi-Volatile Organic Compounds	1,1-Biphenyl	ppm	NS	NS	ND	ND	ND	ND	ND	ND	6	ND	.26	ND
	2-Methylnaphthalene	ppm	NS	NS	ND	.33	ND	ND	ND	ND	69	.33	.73	.32
	3+4-Methylphenol (m&p) cresol	ppm	500	100	ND	ND	ND	ND	ND	ND	.71	ND	ND	ND
	Acenaphthene	ppm	500	100	.4	.72	.51	.43	.91	.97	36	.95	2.9	1.4
	Acenaphthylene	ppm	500	100	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND
	Anthracene	ppm	500	100	1.1	1.8	.32	.63	1.9	3	32	1.8	6.1	2.3
	Benz(a)anthracene	ppm	5.6	1	3.7	3.7	.92	1.1	3.2	7.8	22	2.7	9.9	4.6
	Benzo(a)pyrene	ppm	1	1	4.1	3.6	1.3	1.2	3.5	8	18	2.3	7.6	5.3
	Benzo(b)fluoranthene	ppm	5.6	1	5.1	4.4	1.4	1.3	4	9.4	15	2.5	11	6.4
	Benzo(ghi)perylene	ppm	500	100	2	1.8	.82	.8	2.2	4.8	5.7	1.1	4.5	3.1
	Benzo(k)fluoranthene	ppm	56	3.9	1.6	1.4	.44	.47	1.3	3.2	4.7	.86	3.7	2
	Benzy butyl phthalate	ppm	NS	NS	ND	ND	ND	ND	ND	ND	.51	ND	ND	ND
	Carbazole	ppm	NS	NS	ND	.79	ND	ND	ND	.41	.92	ND	2.4	.49
	Chrysene	ppm	56	3.9	3.3	3.4	.85	.95	3	7	20	2.3	8.4	4.3
	Dibenz(a,h)anthracene	ppm	0.56	.33	.46	.45	.2	.19	.45	1.1	1.9	.29	1.3	.65
	Dibenzofuran	ppm	NS	NS	ND	.57	ND	ND	.53	.34	2.8	ND	2.5	.81
	Fluoranthene	ppm	500	100	6.7	7.2	1.8	2.1	7.2	13	34	6.7	19	9.7
	Fluorene	ppm	500	100	.36	.81	ND	.33	.89	.89	24	.67	3.9	1.1
	Indeno(1,2,3-cd)pyrene	ppm	5.6	0.5	2	1.8	.77	.71	2	4.6	5.5	1.1	4.7	3
	Napthalene	ppm	500	100	.33	.69	ND	.3	.44	.37	44	.61	1.1	.54
	Phenanthrene	ppm	500	100	4.2	6.9	.8	1.8	6.9	7.1	96	3.9	24	8.7
	Pyrene	ppm	500	100	6.4	6.9	2	2	6.5	13	51	6.8	15	8.5
Cyanide	Cyanide	ppm	27	27	ND	ND	1.55	1.38	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds	1,2,4-Trimethylbenzene	ppm	190	52	ND	ND	0.038	0.021	ND	ND	7.2	0.012	ND	ND
	1,3,5-Trimethylbenzene	ppm	190	52	ND	ND	0.011	0.0091	ND	ND	2.6	ND	ND	ND
	p-Isopropyltoluene	ppm	NS	NS	ND	ND	ND	0.023	ND	ND	1.9	ND	ND	ND
	sec-butylbenzene	ppm	500	100	ND	ND	ND	ND	ND	ND	ND	0.0081	ND	ND
	Acetone	ppm	500	100	ND	ND	0.24	ND	ND	ND	ND	0.058	ND	ND
	Ethylbenzene	ppm	390	41	ND	ND	ND	0.0069	ND	ND	2.3	ND	ND	ND
	Isopropylbenzene	ppm	NS	NS	ND	ND	ND	ND	ND	ND	1	ND	ND	ND
	m&p-xylene	ppm	500	100	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND
	Methyl ethyl ketone	ppm	500	100	ND	ND	0.058	ND	ND	ND	ND	ND	ND	ND
	Carbon Disulfide	ppm	NS	NS	ND	ND	0.011	ND	ND	ND	ND	ND	ND	ND
	o-xylene	ppm	500	100	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND
	Total xylenes	ppm	500	100	ND	ND	ND	ND	ND	ND	4.3	ND	ND	ND
EPH	>C28-C40	ppm	NS	NS	ND	ND	180	ND	170	ND	71	110	330	ND
	C9-C28	ppm	NS	NS	ND	ND	320	120	140	ND	280	ND	160	110
	Total EPH	ppm	NS	NS	ND	ND	500	120	310	ND	351	110	490	110
TPH	DRO	ppm	NS	NS	480	ND	ND	76	ND	ND	2500	ND	ND	ND
	GRO	ppm	NS	NS	ND	ND	ND	7.3	ND	ND	100	17	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 Commerical Soil Cleanup Objeictives

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS
TABLE 2: SUMMARY OF TCLP & RCRA ANALYSIS - SAMPLES COLLECTED 1/23/25 - 1/24/25

Parameter	Compounds Detected	Unit	Regulatory Criteria	BH-116	BH-117	BH-118	BH-119	DEP-123	DEP-115A	DEP-115B	DEP-115C	DEP-115D	DEP-115E
RCRA Characteristics	pH	pH units	<2 or >12.5	8.15	8.24	8.13	7.83	8.24	8.57	8.52	8.61	9.51	8.16
	Flashpoint	° 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
	Reactivity - Cyanide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXICITY		Unit	USEPA Toxicity Characteristic Regulatory Criteria	BH-116	BH-117	BH-118	BH-119	DEP-123	DEP-115A	DEP-115B	DEP-115C	DEP-115D	DEP-115E
TCLP Metals	Barium	mg/L	100	0.6	0.75	2.68	0.55	0.44	2.88	0.39	0.56	0.62	0.74
	Lead	mg/L	5	0.1	8.33	0.11	0.34	1.72	1.16	5.2	0.57	0.4	ND
TCLP VOCs	None Detected	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected	—	—	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

Notes:

NS No regulatory criteria available

ND Not detected

Yellow highlighted concentrations and boring locations exceed hazardous waste regulatory criteria.

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
 NYCDDC PROJECT SANDRESM1
 IPC RESILIENCY PARTNERS
 TABLE 3: REUSE/DISPOSAL OPTIONS - 1/23-1/24/25/24 SAMPLING EVENT

Locations Meeting RRUSCOs & CUSCOs (suitable for reuse as backfill in parkland and roadwork) *	Locations Exceeding RRUSCOs (suitable for reuse as backfill in road work areas but not parkland) *	Locations Exceeding RRUSCOs & CUSCOs (disposal off-site required)
		BH-116 BH-117** BH-118 BH-119 DEP-123 DEP-115A DEP-115B** DEP-115C DEP-115D DEP-115E

* Material meeting these criteria may be suitable for use as backfill on site if the material does not contain evidence of historic fill or exhibit odors or staining.

**Hazardous material was encountered at boring locations BH-117 and DEP-115B

ATTACHMENT I
SITE PHOTOGRAPHS



Soil boring DEP-115B (haz location), collected 1/24/25



Soil boring DEP-115C, collected 1/24/25



Soil boring DEP-115D, collected 1/24/25



Soil boring DEP-115E, collected 1/24/25



Soil boring BH-116, collected 1/23/25



Soil boring BH-117, (haz location), collected 1/23/25



Soil boring BH-118, collected 1/23/25



Soil boring BH-119, collected 1/23/25



Soil boring DEP-123, collected 1/23/25



Soil boring DEP-115A, collected 1/24/25

APPENDIX A
BORING LOGS

AES, Inc. SOIL BORING LOG				CLIENT:	IPC Resiliency Partners	BORING ID:	BH-116	
				AGENCY:	NYCDDC	PROPOSED BORING DEPTH	15'	
				DRILLER:	ADT	BORING DATE	1/23/2025	
PROJECT ID:	SANDRESM1			PROJECT No.	0897	TIME STARTED:	11:00	
ADDRESS :	East Side Coastal Resiliency East River Park, NYC			GEOLOGIST:	Eileen Pendergast/Mike Amore			GROUND WATER COMMENTS
LOCATION:		Bulkhead locations in Ballfields 7 & 8						
EQUIPMENT TYPE/SIZE:		Geoprobe 6610						
DEPTH FEET	SAMPLE			PID (ppm)	SOIL CLASSIFICATION COLOR, CONSISTENCY, DESCRIPTION	REMARKS		
	STRATA	SAMPLE #	PEN/REC					
					Hand cleared to 5 ftbg			
5								
				0.0	Brown sandy soil			
			30"		Red brick			
					Black cinders, dark brown sandy loam			
10								
				0.0	Wet black sand, gravel, rock			
			26"		Brown sand, crushed brick, gravel			
13					Refusal encountered, 13'			
GENERAL COMMENTS								
VOC grab @ 10'					TIME SAMPLE COLLECTED:	11:30 AM		

AES, Inc. SOIL BORING LOG				CLIENT:	IPC Resiliency Partners	BORING ID:	BH-118	
				AGENCY:	NYCDDC	PROPOSED BORING DEPTH:	15'	
				DRILLER:	ADT	BORING DATE	1/23/2025	
PROJECT ID:	SANDRESM1			PROJECT No.	0897	TIME STARTED:	12:05	
ADDRESS :	East Side Coastal Resiliency East River Park, NYC			GEOLOGIST:	Eileen Pendergast/Mike Amore			GROUND WATER COMMENTS
LOCATION:		Bulkhead locations in Ballfields 7 & 8						
EQUIPMENT TYPE/SIZE:		Geoprobe 6610						
DEPTH FEET	SAMPLE			PID (ppm)	SOIL CLASSIFICATION COLOR, CONSISTENCY, DESCRIPTION	REMARKS		
	STRATA	SAMPLE #	PEN/REC					
					Hand cleared to 5 ftbg			
5								
			35"	0.0	Black fill material, gray ash and cinders			
					Brown sandy loam			
8					Refusal at 8 ftbg			
GENERAL COMMENTS								
VOC grab @ 5'						TIME SAMPLE COLLECTED:	12:15 PM	

AES, Inc. SOIL BORING LOG				CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-123
				AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'
				DRILLER:	ADT	BORING DATE	1/23/2025
PROJECT ID:	SANDRESM1			PROJECT No.	0897	TIME STARTED:	1:10
ADDRESS :	East Side Coastal Resiliency East River Park, NYC			GEOLOGIST:	Eileen Pendergast/Mike Amore		
LOCATION:		DEP sewer locations in Ballfields 7 & 8				NA	
EQUIPMENT TYPE/SIZE:		Geoprobe 6610					
DEPTH FEET	SAMPLE			PID (ppm)	SOIL CLASSIFICATION COLOR, CONSISTENCY, DESCRIPTION	REMARKS	
	STRATA	SAMPLE #	PEN/REC				
					Hand cleared to 5 ftbg		
5							
				40"	0.0	Slightly wet dark brown sandy loam	
						Red brick, black cinders	
						Light brown sandy loam	
						Red brick, dark brown loam	
10							
11						Refusal encountered, no recovery	
GENERAL COMMENTS							
VOC grab @ 6'					TIME SAMPLE COLLECTED:	1:30 PM	

AES, Inc. SOIL BORING LOG				CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-115A	
				AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'	
				DRILLER:	ADT	BORING DATE	1/24/2025	
PROJECT ID:	SANDRESM1			PROJECT No.	0897	TIME STARTED:	8:35	
ADDRESS :	East Side Coastal Resiliency East River Park, NYC			GEOLOGIST:	Eileen Pendergast/Mike Amore			GROUND WATER COMMENTS
LOCATION:		DEP sewer locations in Ballfields 7 & 8						
EQUIPMENT TYPE/SIZE:		Geoprobe 6610						
DEPTH FEET	SAMPLE			PID (ppm)	SOIL CLASSIFICATION COLOR, CONSISTENCY, DESCRIPTION	REMARKS		
	STRATA	SAMPLE #	PEN/REC					
					Hand cleared to 5 ftbg			
5								
				32"	0.0	Bluestone gravel, red brick, brown wet sand		
						Brown, wet sandy loam		
						Black gravel, some crushed red brick, brown wet sand		
						Dark brown wet sandy loam		
10								
				25"	0.0	Wet black loam mixed with crushed brick and gravel		
						Crushed brick and gravel		
14"						Refusal at 14 ftbg		
GENERAL COMMENTS								
VOC grab @ 10'					TIME SAMPLE COLLECTED:	8:45 AM		

AES, Inc. SOIL BORING LOG				CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-115C	
				AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'	
				DRILLER:	ADT	BORING DATE	1/24/2025	
PROJECT ID:	SANDRESM1			PROJECT No.	0897	TIME STARTED:	9:30	
ADDRESS :	East Side Coastal Resiliency East River Park, NYC			GEOLOGIST:	Eileen Pendergast/Mike Amore			GROUND WATER COMMENTS
LOCATION:		DEP sewer locations in Ballfields 7 & 8						
EQUIPMENT TYPE/SIZE:		Geoprobe 6610						
DEPTH FEET	SAMPLE			PID (ppm)	SOIL CLASSIFICATION COLOR, CONSISTENCY, DESCRIPTION	REMARKS		
	STRATA	SAMPLE #	PEN/REC					
					Hand cleared to 5 ftbg			
5								
				16"	0.0	Bluestone gravel, crushed red brick, gravel		
						Trace amount brown sandy loam		
10								
				20"	0.0	Wet gravel and crushed brick		
						Black and gray sand		
						Black sandy loam		
14"								
				12"	0.0	Black sandy loam, rock and gravel		
						Refusal at 16.5'		
GENERAL COMMENTS								
VOC grab @ 20'					TIME SAMPLE COLLECTED:	9:45 AM		

AES, Inc. SOIL BORING LOG				CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-115D	
				AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'	
				DRILLER:	ADT	BORING DATE	1/24/2025	
PROJECT ID:	SANDRESM1			PROJECT No.	0897	TIME STARTED:	10:00	
ADDRESS :	East Side Coastal Resiliency East River Park, NYC			GEOLOGIST:	Eileen Pendergast/Mike Amore			
LOCATION:		DEP sewer locations in Ballfields 7 & 8				GROUND WATER COMMENTS NA		
EQUIPMENT TYPE/SIZE:		Geoprobe 6610						
DEPTH FEET	SAMPLE			PID (ppm)	SOIL CLASSIFICATION		REMARKS	
	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION			
					Hand cleared to 5 ftbg			
5								
				18"	0.0	Light brown sandy loam		
						Crushed gravel		
9						Refusal at 9 ftbg		
GENERAL COMMENTS								
VOC grab @ 9' Limited recovery and small sample volume						TIME SAMPLE COLLECTED:	10:10 AM	

APPENDIX B

LABORATORY ANALYSIS



Wednesday, February 05, 2025

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

Project ID: EAST SIDE COASTAL RESILIENCY
SDG ID: GCS51748
Sample ID#s: CS51748 - CS51757

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.

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

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

Phyllis Shiller

Laboratory Director

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

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
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 05, 2025

SDG I.D.: GCS51748

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 05, 2025

SDG I.D.: GCS51748

Project ID: EAST SIDE COASTAL RESILIENCY

Client Id	Lab Id	Matrix	Col Date
BH-116	CS51748	SOIL	01/23/25 11:30
BH-117	CS51749	SOIL	01/23/25 12:00
BH-118	CS51750	SOIL	01/23/25 12:15
BH-119	CS51751	SOIL	01/23/25 12:30
DEP-123	CS51752	SOIL	01/23/25 13:00
DEP-115A	CS51753	SOIL	01/24/25 8:45
DEP-115B	CS51754	SOIL	01/24/25 9:30
DEP-115C	CS51755	SOIL	01/24/25 9:45
DEP-115D	CS51756	SOIL	01/24/25 10:10
DEP-115E	CS51757	SOIL	01/24/25 10:35



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



Analysis Report

February 05, 2025

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: 96 Hour
P.O.#: 0897

Custody Information

Collected by: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/23/25
01/27/25

Time

11:30
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51748

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-116

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	8830	62	mg/Kg	10	01/28/25	TH	SW6010D
Arsenic	3.54	0.82	mg/Kg	1	01/28/25	TH	SW6010D
Barium	321	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.57	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Boron	6.2	1.6	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	11500	6.2	mg/Kg	1	01/28/25	TH	SW6010D
Cadmium	1.02	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	10.1	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	25.7	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Copper	46.1	0.8	mg/kg	1	01/28/25	TH	SW6010D
Iron	24600	62	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	0.58	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	1410	62	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	8390	62	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	426	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	347	6.2	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	17.6	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Lead	323	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	01/28/25	TH	SW6010D
Tin	12.5	6.2	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.60	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.7	3.7	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	37.9	0.41	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	282	0.8	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	79		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	27	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	0.08	0.05	mg/L	1	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	9.56	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	78	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion)	< 0.47	0.47	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	2200	170	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.15	1.00	pH Units	1	01/27/25 21:40	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	170		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.63	0.63	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	4.9	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	6.33	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
<u>NJ EPH Category 1 (Fuel #2/Diesel)</u>								
>C28-C40	ND	100	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	ND	200	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	ND	100	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
<u>QA/QC Surrogates</u>								
% COD (surr)	Interference		%	10	01/29/25	JRB	40 - 140 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	57		%	10	01/29/25	JRB	40 - 140 %

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	7.2	mg/Kg	50	01/28/25	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	98		%	50	01/28/25	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	310	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	3100	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	310	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	310	ug/Kg	10	01/29/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	87		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	01/29/25	JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	84	ug/Kg	2	01/28/25	SC	SW8082A

QA/QC Surrogates

% DCBP	74		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	77		%	2	01/28/25	SC	30 - 150 %
% TCMX	75		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	75		%	2	01/28/25	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.5	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	ND	2.5	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	4.7	2.5	ug/Kg	2	01/30/25	AW	SW8081B
α-BHC	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
α-Chlordane	ND	4.2	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	01/30/25	AW	SW8081B
β-BHC	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	42	ug/Kg	2	01/30/25	AW	SW8081B
δ-BHC	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	01/30/25	AW	SW8081B
g-Chlordane	ND	4.2	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	01/30/25	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	75		%	2	01/30/25	AW	30 - 150 %
% DCBP (Confirmation)	71		%	2	01/30/25	AW	30 - 150 %
% TCMX	82		%	2	01/30/25	AW	30 - 150 %
% TCMX (Confirmation)	70		%	2	01/30/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/29/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/29/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	66		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	63		%	10	01/29/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	84		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	72		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	61		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	64		%	10	01/30/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	480	310	mg/Kg	5	01/29/25	JRB	SW8015D DRO
<u>QA/OC Surrogates</u>							
% COD (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	40	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	40	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	48	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	16	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	6.4	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	40	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	99		%	1	01/28/25	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	1	01/28/25	JLI	SW8260D
<u>Volatiles</u>							
1,2,3-Trichloropropane	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	99		%	1	01/28/25	JLI	70 - 130 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (10x)	101		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	99		%	10	01/28/25	MH	70 - 130 %

Volatile Library Search Completed 01/29/25 JLI

Semivolatiles

1,1-Biphenyl	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	670	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitroaniline	ND	670	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitrophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	500	ug/Kg	1	01/28/25	MR	SW8270E	
3-Nitroaniline	ND	670	ug/Kg	1	01/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	1	01/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	420	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloroaniline	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitroaniline	ND	670	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitrophenol	ND	1200	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthene	400	290	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthylene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Acetophenone	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Anthracene	1100	290	ug/Kg	1	01/28/25	MR	SW8270E	
Atrazine	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benz(a)anthracene	3700	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzaldehyde	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(a)pyrene	4100	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(b)fluoranthene	5100	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(ghi)perylene	2000	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(k)fluoranthene	1600	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	420	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Caprolactam	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Carbazole	ND	420	ug/Kg	1	01/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	3300	290	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	460	210	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	840	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	6700	290	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	360	290	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	2000	290	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	330	290	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	420	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	210	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	420	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	420	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	4200	290	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	6400	290	ug/Kg	1	01/28/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	71		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	60		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	70		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	66		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	58		%	1	01/28/25	MR	30 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	78		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	66		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	58		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	70		%	1	01/30/25	MR	30 - 130 %

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-116

Phoenix I.D.: CS51748

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Phenol-d5	54		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	76		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	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.

C = This parameter is subcontracted.

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.

Hexavalent Chromium:

This sample is in a reducing state.

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.

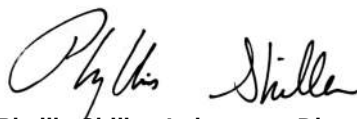
Ammonia:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

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 05, 2025

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



Analysis Report

February 05, 2025

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: 96 Hour
P.O.#: 0897

Custody Information

Collected by: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/23/25
01/27/25

Time

12:00
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51749

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-117

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	4970	5.7	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	5.94	0.77	mg/Kg	1	01/28/25	TH	SW6010D
Barium	558	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	< 0.31	0.31	mg/Kg	1	01/28/25	TH	SW6010D
Boron	8.1	1.5	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	56900	57	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	0.69	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	4.26	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	12.2	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Copper	63.8	0.8	mg/kg	1	01/28/25	TH	SW6010D
Iron	7340	5.7	mg/Kg	1	01/28/25	TH	SW6010D
Mercury	0.75	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	851	57	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	6280	57	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	263	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	841	5.7	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	19.6	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Lead	5050	3.8	mg/Kg	10	01/28/25	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	01/28/25	TH	SW6010D
Tin	11.4	5.7	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.75	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	8.33	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.4	3.4	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	17.3	0.38	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	444	0.8	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	86		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	33	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	0.08	0.05	mg/L	1	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	7.43	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	150	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion)	< 0.43	0.43	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	660	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.24	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	79.8		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.58	0.58	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	2.7	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	4.81	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
<u>NJ EPH Category 1 (Fuel #2/Diesel)</u>								
>C28-C40	ND	46	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	ND	91	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	ND	46	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
<u>QA/QC Surrogates</u>								
% COD (surr)	79		%	5	01/29/25	JRB	40 - 140 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	96		%	5	01/29/25	JRB	40 - 140 %

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	5.7	mg/Kg	50	01/28/25	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	95		%	50	01/28/25	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	81		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	79		%	10	01/29/25	JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	01/28/25	SC	SW8082A

QA/QC Surrogates

% DCBP	72		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	74		%	2	01/28/25	SC	30 - 150 %
% TCMX	73		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	73		%	2	01/28/25	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
α-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
α-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
β-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	01/30/25	AW	SW8081B
δ-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	01/30/25	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	01/30/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	93		%	2	01/30/25	AW	30 - 150 %
% DCBP (Confirmation)	68		%	2	01/30/25	AW	30 - 150 %
% TCMX	74		%	2	01/30/25	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	01/30/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/29/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/29/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	61		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	60		%	10	01/29/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	82		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	76		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	64		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	70		%	10	01/30/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	01/29/25	JRB	SW8015D DRO
<u>QA/OC Surrogates</u>							
% COD (surr)	99		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	90		%	5	01/29/25	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	24	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	24	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	48	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	29	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	9.7	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	3.9	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	24	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	102		%	1	01/28/25	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	72	ug/kg	1	01/28/25	JLI	SW8260D
<u>Volatiles</u>							
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	102		%	1	01/28/25	JLI	70 - 130 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	01/28/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (10x)	100		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	101		%	10	01/28/25	MH	70 - 130 %

Volatile Library Search Completed 01/29/25 JLI

Semivolatiles

1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylnaphthalene	330	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	01/28/25	MR	SW8270E	
3-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthene	720	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acetophenone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Anthracene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E	
Atrazine	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benz(a)anthracene	3700	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(a)pyrene	3600	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(b)fluoranthene	4400	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(ghi)perylene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(k)fluoranthene	1400	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Caprolactam	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Carbazole	790	380	ug/Kg	1	01/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	3400	270	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	450	190	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	570	270	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	770	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	7200	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	810	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	690	270	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	6900	270	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	6900	270	ug/Kg	1	01/28/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	99		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	81		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	71		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	81		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	79		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	73		%	1	01/28/25	MR	30 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	75		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	57		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	68		%	1	01/30/25	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Phenol-d5	52		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	78		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

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.

C = This parameter is subcontracted.

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.

Hexavalent Chromium:
This sample is in a reducing state.

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.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

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 05, 2025

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



Analysis Report

February 05, 2025

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: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/23/25
01/27/25

Time

12:15
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51750

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-118

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.70	0.70	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	5620	5.6	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	7.16	0.74	mg/Kg	1	01/28/25	TH	SW6010D
Barium	190	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.35	0.30	mg/Kg	1	01/28/25	TH	SW6010D
Boron	4.7	1.5	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	35800	56	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	0.71	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.32	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	17.7	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Copper	86.7	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	17100	56	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	1.42	0.74	mg/Kg	50	01/28/25	ZT	SW7471B
Potassium	1140	56	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	5720	5.6	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	241	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	296	5.6	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	16.6	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Lead	260	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	01/28/25	TH	SW6010D
Tin	21.6	5.6	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	2.68	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	0.11	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.4	3.4	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	23.3	0.37	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	209	0.7	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	85		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	50	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	0.50	0.05	mg/L	1	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	8.84	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	120	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion)	< 0.44	0.44	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	5200	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.13	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	155		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	1.55	0.59	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	2.5	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	7.23	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
<u>NJ EPH Category 1 (Fuel #2/Diesel)</u>								
>C28-C40	180	47	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	320	93	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	500	47	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
<u>QA/QC Surrogates</u>								
% COD (surr)	111		%	5	01/29/25	JRB	40 - 140 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	137		%	5	01/29/25	JRB	40 - 140 %

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	6.9	mg/Kg	50	01/28/25	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	99		%	50	01/28/25	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	69		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	70		%	10	01/29/25	JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	78	ug/Kg	2	01/28/25	SC	SW8082A

QA/QC Surrogates

% DCBP	77		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	80		%	2	01/28/25	SC	30 - 150 %
% TCMX	73		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	78		%	2	01/28/25	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	11	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDE	18	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDT	45	2.3	ug/Kg	2	01/29/25	AW	SW8081B
α-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
α-Chlordane	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
β-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	01/29/25	AW	SW8081B
δ-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	01/29/25	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	01/29/25	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	01/29/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	76		%	2	01/29/25	AW	30 - 150 %
% DCBP (Confirmation)	96		%	2	01/29/25	AW	30 - 150 %
% TCMX	67		%	2	01/29/25	AW	30 - 150 %
% TCMX (Confirmation)	91		%	2	01/29/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/29/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/29/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	75		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	60		%	10	01/29/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	78		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	70		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	57		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	64		%	10	01/30/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	01/29/25	JRB	SW8015D DRO
<u>QA/QC Surrogates</u>							
% COD (surr)	149		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,2-Dibromoethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,2-Dichloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
2-Hexanone	ND	31	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	31	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	240	S 50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	11	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
m&p-Xylene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	58	37	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	5.0	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	31	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	96		%	1	01/28/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	01/29/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	01/29/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	94		%	50	01/29/25	JLI	70 - 130 %
% Toluene-d8 (50x)	98		%	50	01/29/25	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	94	ug/kg	1	01/28/25	JLI	SW8260D
<u>Volatiles</u>							
1,2,3-Trichloropropane	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	38	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	11	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	96		%	1	01/28/25	JLI	70 - 130 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	98		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	99		%	10	01/28/25	MH	70 - 130 %
Volatile Library Search	Completed				01/29/25	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dinitrophenol	ND	620	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	01/28/25	MR	SW8270E
3-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
4-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E
Acenaphthene	510	270	ug/Kg	1	01/28/25	MR	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Acetophenone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Anthracene	320	270	ug/Kg	1	01/28/25	MR	SW8270E
Atrazine	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Benz(a)anthracene	920	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(a)pyrene	1300	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(b)fluoranthene	1400	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(ghi)perylene	820	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(k)fluoranthene	440	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Caprolactam	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Carbazole	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Chrysene	850	270	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	200	190	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	770	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	770	270	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	800	270	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	2000	270	ug/Kg	1	01/28/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	78		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	59		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	73		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	69		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	59		%	1	01/28/25	MR	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol	77		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	69		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	60		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	72		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	56		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	77		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	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.

C = This parameter is subcontracted.

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.

Hexavalent Chromium:

This sample is in a reducing state.

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.

Ammonia:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

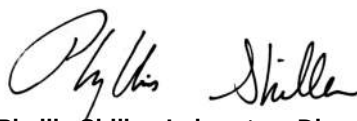
All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

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.

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Phyllis Shiller, Laboratory Director

February 05, 2025

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



Analysis Report

February 05, 2025

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: 96 Hour
P.O.#: 0897

Custody Information

Collected by: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/23/25
01/27/25

Time

12:30
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51751

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-119

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.70	0.70	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	6500	5.0	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	10.1	0.67	mg/Kg	1	01/28/25	TH	SW6010D
Barium	275	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.35	0.27	mg/Kg	1	01/28/25	TH	SW6010D
Boron	10.0	1.3	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	10900	50	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	1.04	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.76	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	26.7	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Copper	98.7	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	37600	50	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	4.95	0.69	mg/Kg	50	01/28/25	ZT	SW7471B
Potassium	1770	50	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	4210	5.0	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	276	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	788	5.0	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	16.9	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Lead	339	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	01/28/25	TH	SW6010D
Tin	220	50	mg/Kg	10	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.55	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Lead	0.34	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D
Thallium	< 3.0	3.0	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A
Vanadium	22.2	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Zinc	461	0.7	mg/Kg	1	01/28/25	TH	SW6010D
Percent Solid	88		%		01/27/25	CV	SW846-%Solid
ASTM C.O.D.	44	10	mg/L	1	01/30/25	NP	SM5220D
ASTM Ammonia Nitrogen	< 0.10	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD
ASTM pH	8.88	0.10	pH Units	1	01/28/25	KG	SM423/E150.1
ASTM Total Solids	180	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr 1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B
Chromium, Hex. (SW3060A digestion)	< 0.41	0.41	mg/Kg	1	01/28/25	NP	SW7196A
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit 1
Oil and Grease by SW 9071	3200	160	mg/Kg	1	01/29/25	R/AMM	SW9071B
pH at 25C - Soil	7.83	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D 1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90 1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7 1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React 1
Redox Potential	192		mV	1	01/27/25	ER	SM2580B-09 1
Total Cyanide (SW9010C Distill.)	1.38	0.57	mg/Kg	1	01/28/25	KL1/GD	SW9012B
Volatile Solids @ 500C	3.5	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15 1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311
TCLP Final PH	5.78	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023 C
<u>NJ EPH Category 1 (Fuel #2/Diesel)</u>							
>C28-C40	ND	45	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3 1
C9-C28	120	90	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3 1
Total EPH	120	45	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3 1
<u>QA/QC Surrogates</u>							
% COD (surr)	110		%	5	01/29/25	JRB	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	78		%	5	01/29/25	JRB	40 - 140 %

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	7.3	7.0	mg/Kg	50	01/28/25	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	99		%	50	01/28/25	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	68		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	71		%	10	01/29/25	JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	76	ug/Kg	2	01/28/25	SC	SW8082A

QA/QC Surrogates

% DCBP	83		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	70		%	2	01/28/25	SC	30 - 150 %
% TCMX	75		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	66		%	2	01/28/25	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	28	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDE	54	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDT	65	2.3	ug/Kg	2	01/29/25	AW	SW8081B
α-BHC	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
α-Chlordane	ND	10	ug/Kg	2	01/29/25	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	01/29/25	AW	SW8081B
β-BHC	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	01/29/25	AW	SW8081B
δ-BHC	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	01/29/25	AW	SW8081B
g-Chlordane	ND	10	ug/Kg	2	01/29/25	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	01/29/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	01/29/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	78		%	2	01/29/25	AW	30 - 150 %
% DCBP (Confirmation)	85		%	2	01/29/25	AW	30 - 150 %
% TCMX	57		%	2	01/29/25	AW	30 - 150 %
% TCMX (Confirmation)	71		%	2	01/29/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/29/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/29/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	61		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	59		%	10	01/29/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	33		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	29		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	43		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	46		%	10	01/30/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	76	56	mg/Kg	1	01/29/25	JRB	SW8015D DRO
<u>QA/OC Surrogates</u>							
% COD (surr)	75		%	1	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	61		%	1	01/29/25	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	30	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	30	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	6.9	6.0	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	36	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	30	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	97		%	1	01/28/25	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	90	ug/kg	1	01/28/25	JLI	SW8260D
<u>Volatiles</u>							
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	21	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	9.1	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	23	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	97		%	1	01/28/25	JLI	70 - 130 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	01/28/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (10x)	100		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %

Volatile Library Search Completed 01/29/25 JLI

Semivolatiles

1,1-Biphenyl	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	600	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitroaniline	ND	600	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	01/28/25	MR	SW8270E	
3-Nitroaniline	ND	600	ug/Kg	1	01/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitroaniline	ND	600	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthene	430	260	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthylene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Acetophenone	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Anthracene	630	260	ug/Kg	1	01/28/25	MR	SW8270E	
Atrazine	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benz(a)anthracene	1100	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzaldehyde	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(a)pyrene	1200	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(b)fluoranthene	1300	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(ghi)perylene	800	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(k)fluoranthene	470	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Caprolactam	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Carbazole	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	950	260	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	190	190	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	750	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	2100	260	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	330	260	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	710	260	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	300	260	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	1800	260	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	2000	260	ug/Kg	1	01/28/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	61		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	72		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	69		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	63		%	1	01/28/25	MR	30 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	75		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	69		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	58		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	70		%	1	01/30/25	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Phenol-d5	53		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	75		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

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.

C = This parameter is subcontracted.

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.

Hexavalent Chromium:

This sample is in a reducing state.

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.

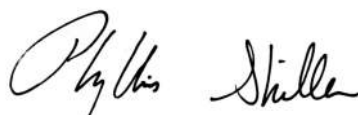
Ammonia:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

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 05, 2025

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



Analysis Report

February 05, 2025

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: 96 Hour
P.O.#: 0897

Custody Information

Collected by: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/23/25
01/27/25

Time

13:00
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51752

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-123

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	7960	53	mg/Kg	10	01/28/25	TH	SW6010D
Arsenic	3.44	0.71	mg/Kg	1	01/28/25	TH	SW6010D
Barium	50.6	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.49	0.28	mg/Kg	1	01/28/25	TH	SW6010D
Boron	4.2	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	3510	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	9.31	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	23.2	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Copper	14.9	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	11900	53	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	0.13	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	984	53	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	2930	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	124	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	366	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	18.2	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Lead	75.9	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Tin	6.7	5.3	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.44	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	1.72	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.2	3.2	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	25.1	0.35	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	78.2	0.7	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	86		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	55	10	mg/L	1	01/30/25	NP	SM5220D	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion)	< 0.42	0.42	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	580	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.24	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	229		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.58	0.58	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	1.4	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	4.76	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
<u>NJ EPH Category 1 (Fuel #2/Diesel)</u>								
>C28-C40	170	46	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	140	92	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	310	46	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
<u>QA/QC Surrogates</u>								
% COD (surr)	55		%	5	01/29/25	JRB	40 - 140 %	
% Terphenyl (surr)	81		%	5	01/29/25	JRB	40 - 140 %	
<u>Gasoline Range Hydrocarbons (C6-C10)</u>								
GRO (C6-C10)	ND	7.0	mg/Kg	50	01/28/25	V	SW8015D GRO	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,5-Dibromotoluene (FID)	75		%	50	01/28/25	V	70 - 130 %
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	81		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	01/29/25	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	79		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	89		%	2	01/28/25	SC	30 - 150 %
% TCMX	73		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	83		%	2	01/28/25	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	01/30/25	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	01/30/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	01/30/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	82		%	2	01/30/25	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	01/30/25	AW	30 - 150 %
% TCMX	66		%	2	01/30/25	AW	30 - 150 %
% TCMX (Confirmation)	68		%	2	01/30/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	61		%	10	01/30/25	JRB	30 - 150 %
% DCAA (Confirmation)	60		%	10	01/30/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
α-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
β-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
δ-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
γ-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	78		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	71		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	54		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	58		%	10	01/30/25	AW	30 - 150 %
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	01/29/25	JRB	SW8015D DRO
<u>QA/QC Surrogates</u>							
% COD (surr)	70		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	90		%	5	01/29/25	JRB	50 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	28	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	28	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	34	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	4.5	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	28	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Styrene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	100		%	1	01/28/25	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	85	ug/kg	1	01/28/25	JLI	SW8260D
<u>Volatiles</u>							
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	100		%	1	01/28/25	JLI	70 - 130 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	99		%	10	01/28/25	MH	70 - 130 %
Volatile Library Search	Completed				01/29/25	JLI	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dinitrophenol	ND	620	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	01/28/25	MR	SW8270E
3-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
4-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E
Acenaphthene	910	270	ug/Kg	1	01/28/25	MR	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Acetophenone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Anthracene	1900	270	ug/Kg	1	01/28/25	MR	SW8270E
Atrazine	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Benz(a)anthracene	3200	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(a)pyrene	3500	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(b)fluoranthene	4000	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(ghi)perylene	2200	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(k)fluoranthene	1300	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Caprolactam	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Carbazole	710	380	ug/Kg	1	01/28/25	MR	SW8270E
Chrysene	3000	270	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	450	190	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	530	270	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	770	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	7200	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	890	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	2000	270	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	440	270	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	6900	270	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	6500	270	ug/Kg	1	01/28/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	99		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	77		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	69		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	79		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	77		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	70		%	1	01/28/25	MR	30 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	85		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	75		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	64		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	71		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	55		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	79		%	1	01/30/25	MR	30 - 130 %
Semivolatle Library Search	Completed				01/29/25	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.

C = This parameter is subcontracted.

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.

Hexavalent Chromium:
This sample is in a reducing state.

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

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

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

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 05, 2025

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



Analysis Report

February 05, 2025

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: 96 Hour
P.O.#: 0897

Custody Information

Collected by: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/24/25
01/27/25

Time

8:45
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51753

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	9040	63	mg/Kg	10	01/28/25	TH	SW6010D
Arsenic	3.15	0.84	mg/Kg	1	01/28/25	TH	SW6010D
Barium	159	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.39	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Boron	32.6	1.7	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	29900	63	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	< 0.42	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.06	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	14.9	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Copper	16.5	0.8	mg/kg	1	01/28/25	TH	SW6010D
Iron	10900	63	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	0.36	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	1030	63	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	25200	63	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	259	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	731	6.3	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	34.1	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Lead	145	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	01/28/25	TH	SW6010D
Tin	< 6.3	6.3	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	2.88	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Lead	1.16	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D
Thallium	< 3.8	3.8	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A
Vanadium	19.2	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Zinc	95.6	0.8	mg/Kg	1	01/28/25	TH	SW6010D
Percent Solid	83		%		01/27/25	CV	SW846-%Solid
ASTM C.O.D.	87	10	mg/L	1	01/30/25	NP	SM5220D
ASTM Ammonia Nitrogen	< 0.10	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2
ASTM Oil/Grease	4.0	1.4	mg/L	1	01/30/25	AMM	E1664A MOD
ASTM pH	9.40	0.10	pH Units	1	01/28/25	KG	SM423/E150.1
ASTM Total Solids	530	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr 1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B
Chromium, Hex. (SW3060A digestion)	< 0.46	0.46	mg/Kg	1	01/28/25	NP	SW7196A
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit 1
Oil and Grease by SW 9071	1700	170	mg/Kg	1	01/29/25	R/AMM	SW9071B
pH at 25C - Soil	8.57	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D 1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90 1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7 1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React 1
Redox Potential	-116		mV	1	01/27/25	ER	SM2580B-09 1
Total Cyanide (SW9010C Distill.)	< 0.60	0.60	mg/Kg	1	01/28/25	KL1/GD	SW9012B
Volatile Solids @ 500C	2.6	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15 1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311
TCLP Final PH	6.72	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023 C
<u>NJ EPH Category 1 (Fuel #2/Diesel)</u>							
>C28-C40	ND	96	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3 1
C9-C28	ND	190	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3 1
Total EPH	ND	96	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3 1
<u>QA/QC Surrogates</u>							
% COD (surr)	Interference		%	10	01/29/25	JRB	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	69		%	10	01/29/25	JRB	40 - 140 %
<u>Gasoline Range Hydrocarbons (C6-C10)</u>							
GRO (C6-C10)	ND	9.2	mg/Kg	50	01/28/25	V	SW8015D GRO
<u>QA/QC Surrogates</u>							
% 2,5-Dibromotoluene (FID)	78		%	50	01/28/25	V	70 - 130 %
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	300	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	3000	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	300	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	300	ug/Kg	10	01/29/25	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	76		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	77		%	10	01/29/25	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	79		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	94		%	2	01/28/25	SC	30 - 150 %
% TCMX	72		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	66		%	2	01/28/25	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.4	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDE	ND	2.4	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDT	ND	2.4	ug/Kg	2	01/29/25	AW	SW8081B
α-BHC	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
α-Chlordane	ND	4.0	ug/Kg	2	01/29/25	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	01/29/25	AW	SW8081B
β-BHC	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	01/29/25	AW	SW8081B
δ-BHC	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	01/29/25	AW	SW8081B
g-Chlordane	ND	4.0	ug/Kg	2	01/29/25	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	01/29/25	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	01/29/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	93		%	2	01/29/25	AW	30 - 150 %
% DCBP (Confirmation)	85		%	2	01/29/25	AW	30 - 150 %
% TCMX	61		%	2	01/29/25	AW	30 - 150 %
% TCMX (Confirmation)	89		%	2	01/29/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	61		%	10	01/30/25	JRB	30 - 150 %
% DCAA (Confirmation)	60		%	10	01/30/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	75		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	67		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	66		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	69		%	10	01/30/25	AW	30 - 150 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	300	mg/Kg	5	01/29/25	JRB	SW8015D DRO
<u>QA/OC Surrogates</u>							
% COD (surr)	76		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	64		%	5	01/29/25	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	17	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	17	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	34	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	21	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.9	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	2.7	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	17	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	01/28/25	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	52	ug/kg	1	01/28/25	JLI	SW8260D
<u>Volatiles</u>							
1,2,3-Trichloropropane	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	01/28/25	JLI	70 - 130 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	96		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (10x)	102		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %

Volatile Library Search Completed 01/29/25 JLI

Semivolatiles

1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dinitrophenol	ND	630	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Nitroaniline	ND	630	ug/Kg	1	01/28/25	KCA	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	01/28/25	KCA	SW8270E
3-Nitroaniline	ND	630	ug/Kg	1	01/28/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
4-Nitroaniline	ND	630	ug/Kg	1	01/28/25	KCA	SW8270E
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E
Acenaphthene	970	270	ug/Kg	1	01/28/25	KCA	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Acetophenone	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Anthracene	3000	270	ug/Kg	1	01/28/25	KCA	SW8270E
Atrazine	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benz(a)anthracene	7800	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(a)pyrene	8000	1400	ug/Kg	5	01/29/25	KCA	SW8270E
Benzo(b)fluoranthene	9400	1400	ug/Kg	5	01/29/25	KCA	SW8270E
Benzo(ghi)perylene	4800	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(k)fluoranthene	3200	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Caprolactam	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Carbazole	410	390	ug/Kg	1	01/28/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	7000	270	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenz(a,h)anthracene	1100	200	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenzofuran	340	270	ug/Kg	1	01/28/25	KCA	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-butylphthalate	ND	780	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Fluoranthene	13000	1400	ug/Kg	5	01/29/25	KCA	SW8270E
Fluorene	890	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	4600	270	ug/Kg	1	01/28/25	KCA	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Naphthalene	370	270	ug/Kg	1	01/28/25	KCA	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E
Phenanthrene	7100	270	ug/Kg	1	01/28/25	KCA	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Pyrene	13000	1400	ug/Kg	5	01/29/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorophenol	62		%	1	01/28/25	KCA	30 - 130 %
% Nitrobenzene-d5	76		%	1	01/28/25	KCA	30 - 130 %
% Phenol-d5	73		%	1	01/28/25	KCA	30 - 130 %
% Terphenyl-d14	67		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl (5x)	69		%	5	01/29/25	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	82		%	5	01/29/25	KCA	30 - 130 %
% Terphenyl-d14 (5x)	45		%	5	01/29/25	KCA	30 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	69		%	1	01/30/25	MR	15 - 110 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	61		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	52		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	56		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	45		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	65		%	1	01/30/25	MR	30 - 130 %
Semivolatiles Library Search	Completed				01/29/25	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.

C = This parameter is subcontracted.

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.

Hexavalent Chromium:
This sample is in a reducing state.

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.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

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 05, 2025

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



Analysis Report

February 05, 2025

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: 96 Hour
P.O.#: 0897

Custody Information

Collected by: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/24/25
01/27/25

Time

9:30
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51754

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	9.24	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	8630	8.4	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	33.9	1.1	mg/Kg	1	01/28/25	TH	SW6010D
Barium	839	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.65	0.45	mg/Kg	1	01/28/25	TH	SW6010D
Boron	17.2	2.3	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	6690	8.4	mg/Kg	1	01/28/25	TH	SW6010D
Cadmium	2.54	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	8.96	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	59.4	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Copper	268	1.1	mg/kg	1	01/28/25	TH	SW6010D
Iron	30500	84	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	4.47	0.42	mg/Kg	20	01/28/25	ZT	SW7471B
Potassium	2320	84	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	5310	8.4	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	222	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	5270	8.4	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	35.9	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Lead	1100	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	5.8	5.6	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 2.3	2.3	mg/Kg	1	01/28/25	TH	SW6010D
Tin	135	8.4	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.39	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	5.20	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 5.1	5.1	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	40.3	0.56	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	932	1.1	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	57		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	286	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	3.60	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	6.3	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	8.74	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	1200	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion)	< 0.64	0.64	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	1000	240	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.52	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 8	8	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	81.0	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	-266		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.88	0.88	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	11.1	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	5.74	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
<u>NJ EPH Category 1 (Fuel #2/Diesel)</u>								
>C28-C40	71	23	mg/kg	1	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	280	45	mg/kg	1	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	351	23	mg/kg	1	01/29/25	JRB	NJEPH 10-08 R3	1
<u>QA/QC Surrogates</u>								
% COD (surr)	56		%	1	01/29/25	JRB	40 - 140 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	78		%	1	01/29/25	JRB	40 - 140 %
<u>Gasoline Range Hydrocarbons (C6-C10)</u>							
GRO (C6-C10)	100	30	mg/Kg	100	01/29/25	V	SW8015D GRO
<u>QA/QC Surrogates</u>							
% 2,5-Dibromotoluene (FID)	105		%	100	01/29/25	V	70 - 130 %
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	220	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	220	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	440	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	4400	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	220	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	220	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	440	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	440	ug/Kg	10	01/29/25	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	38		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	79		%	10	01/29/25	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1221	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1232	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1242	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1248	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1254	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1260	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1262	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1268	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	102		%	2	01/29/25	SC	30 - 150 %
% DCBP (Confirmation)	79		%	2	01/29/25	SC	30 - 150 %
% TCMX	75		%	2	01/29/25	SC	30 - 150 %
% TCMX (Confirmation)	77		%	2	01/29/25	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	6.7	3.5	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
α-BHC	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
α-Chlordane	ND	5.8	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
β-BHC	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	58	ug/Kg	2	01/30/25	AW	SW8081B
δ-BHC	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	12	ug/Kg	2	01/30/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Endrin aldehyde	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Endrin ketone	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
g-BHC	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
g-Chlordane	ND	5.8	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Methoxychlor	ND	58	ug/Kg	2	01/30/25	AW	SW8081B
Toxaphene	ND	230	ug/Kg	2	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	66		%	2	01/30/25	AW	30 - 150 %
% DCBP (Confirmation)	49		%	2	01/30/25	AW	30 - 150 %
% TCMX	84		%	2	01/30/25	AW	30 - 150 %
% TCMX (Confirmation)	34		%	2	01/30/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	65		%	10	01/30/25	JRB	30 - 150 %
% DCAA (Confirmation)	64		%	10	01/30/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	80		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	73		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	68		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	73		%	10	01/30/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	2500	630	mg/Kg	5	01/29/25	JRB	SW8015D DRO
<u>QA/OC Surrogates</u>							
% COD (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	65		%	5	01/29/25	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	680	ug/kg	50	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	270	ug/kg	50	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	330	ug/kg	50	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	20	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
2-Hexanone	ND	3700	ug/kg	50	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	3700	ug/kg	50	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	50	01/28/25	JLI	SW8260D
Benzene	ND	60	ug/kg	50	01/28/25	JLI	SW8260D
Bromochloromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Bromoform	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Bromomethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Chlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Chloroethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Chloroform	ND	370	ug/kg	50	01/28/25	JLI	SW8260D
Chloromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	250	ug/kg	50	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Cyclohexane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Ethylbenzene	2300	750	ug/kg	50	01/28/25	JLI	SW8260D
Isopropylbenzene	1000	750	ug/kg	50	01/28/25	JLI	SW8260D
m&p-Xylene	2500	250	ug/kg	50	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	120	ug/kg	50	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	930	ug/kg	50	01/28/25	JLI	SW8260D
Methylacetate	ND	600	ug/kg	50	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Methylene chloride	ND	50	ug/kg	50	01/28/25	JLI	SW8260D
o-Xylene	1800	250	ug/kg	50	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Toluene	ND	700	ug/kg	50	01/28/25	JLI	SW8260D
Total Xylenes	4300	250	ug/kg	50	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	190	ug/kg	50	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Trichloroethene	ND	470	ug/kg	50	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Vinyl chloride	ND	20	ug/kg	50	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	103		%	50	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	01/28/25	JLI	70 - 130 %
% Toluene-d8 (50x)	103		%	50	01/28/25	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	50	01/28/25	JLI	SW8260D
<u>Volatiles</u>							
1,2,3-Trichloropropane	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	7200	750	ug/Kg	50	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	2600	750	ug/Kg	50	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
p-Isopropyltoluene	1900	750	ug/Kg	50	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	103		%	50	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	01/28/25	JLI	70 - 130 %
% Toluene-d8 (50x)	103		%	50	01/28/25	JLI	70 - 130 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	01/28/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (10x)	101		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %
Volatile Library Search	Completed				01/29/25	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	6000	410	ug/Kg	1	01/28/25	KCA	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2,3,4,6-tetrachlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dichlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dimethylphenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dinitrophenol	ND	930	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2-Chloronaphthalene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2-Chlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
2-Methylnaphthalene	69000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E
2-Nitroaniline	ND	930	ug/Kg	1	01/28/25	KCA	SW8270E
2-Nitrophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	710	580	ug/Kg	1	01/28/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	700	ug/Kg	1	01/28/25	KCA	SW8270E
3-Nitroaniline	ND	930	ug/Kg	1	01/28/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	1700	ug/Kg	1	01/28/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chloroaniline	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
4-Nitroaniline	ND	930	ug/Kg	1	01/28/25	KCA	SW8270E
4-Nitrophenol	ND	1700	ug/Kg	1	01/28/25	KCA	SW8270E
Acenaphthene	36000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Acenaphthylene	6900	410	ug/Kg	1	01/28/25	KCA	SW8270E
Acetophenone	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Anthracene	32000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Atrazine	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Benz(a)anthracene	22000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Benzaldehyde	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(a)pyrene	18000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Benzo(b)fluoranthene	15000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Benzo(ghi)perylene	5700	410	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(k)fluoranthene	4700	410	ug/Kg	1	01/28/25	KCA	SW8270E
Benzyl butyl phthalate	510	410	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	450	ug/Kg	1	01/28/25	KCA	SW8270E
Caprolactam	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Carbazole	920	580	ug/Kg	1	01/28/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	20000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Dibenz(a,h)anthracene	1900	290	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenzofuran	2800	410	ug/Kg	1	01/28/25	KCA	SW8270E
Diethyl phthalate	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Dimethylphthalate	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-butylphthalate	ND	1200	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-octylphthalate	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Fluoranthene	34000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Fluorene	24000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Hexachlorobenzene	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobutadiene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachloroethane	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	5500	410	ug/Kg	1	01/28/25	KCA	SW8270E
Isophorone	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Naphthalene	44000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Nitrobenzene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E
Pentachlorophenol	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E
Phenanthrene	96000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Phenol	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E
Pyrene	51000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	97		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	58		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorophenol	55		%	1	01/28/25	KCA	30 - 130 %
% Nitrobenzene-d5	75		%	1	01/28/25	KCA	30 - 130 %
% Phenol-d5	65		%	1	01/28/25	KCA	30 - 130 %
% Terphenyl-d14	67		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl (10x)	69		%	10	01/29/25	KCA	30 - 130 %
% Nitrobenzene-d5 (10x)	80		%	10	01/29/25	KCA	30 - 130 %
% Terphenyl-d14 (10x)	51		%	10	01/29/25	KCA	30 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	79		%	1	01/30/25	MR	15 - 110 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	65		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	55		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	71		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	53		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	72		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	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.

C = This parameter is subcontracted.

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.

Hexavalent Chromium:

This sample is in a reducing state.

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.

Volatile Comment:

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

Ammonia:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

GRO diluted run

Elevated reporting limits for GRO due to the presence of target and/or non-target compounds.

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

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

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 05, 2025

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



Analysis Report

February 05, 2025

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: 96 Hour
P.O.#: 0897

Custody Information

Collected by: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/24/25
01/27/25

Time

9:45
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51755

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	4180	6.1	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	2.58	0.82	mg/Kg	1	01/28/25	TH	SW6010D
Barium	97.4	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	< 0.33	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Boron	2.7	1.6	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	91800	61	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	< 0.41	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	3.38	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	8.22	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Copper	29.5	0.8	mg/kg	1	01/28/25	TH	SW6010D
Iron	8480	6.1	mg/Kg	1	01/28/25	TH	SW6010D
Mercury	0.83	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	998	61	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	6350	61	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	178	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	239	6.1	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	11.9	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Lead	133	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	01/28/25	TH	SW6010D
Tin	7.0	6.1	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.56	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	0.57	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.7	3.7	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	19.8	0.41	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	87.3	0.8	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	85		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	89	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	0.44	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	3.9	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	10.21	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	1100	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion)	< 0.44	0.44	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	5600	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.61	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 5	5	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	118		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	4.3	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	5.73	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
<u>NJ EPH Category 1 (Fuel #2/Diesel)</u>								
>C28-C40	110	93	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	ND	190	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	110	93	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
<u>QA/QC Surrogates</u>								
% COD (surr)	41		%	10	01/29/25	JRB	40 - 140 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	47		%	10	01/29/25	JRB	40 - 140 %
<u>Gasoline Range Hydrocarbons (C6-C10)</u>							
GRO (C6-C10)	17	7.8	mg/Kg	50	01/28/25	V	SW8015D GRO
<u>QA/QC Surrogates</u>							
% 2,5-Dibromotoluene (FID)	106		%	50	01/28/25	V	70 - 130 %
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	66		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	65		%	10	01/29/25	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	84		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	85		%	2	01/28/25	SC	30 - 150 %
% TCMX	71		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	77		%	2	01/28/25	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	01/29/25	AW	SW8081B
α-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
α-Chlordane	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
β-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	01/29/25	AW	SW8081B
δ-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	01/29/25	AW	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	01/29/25	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	01/29/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	104		%	2	01/29/25	AW	30 - 150 %
% DCBP (Confirmation)	114		%	2	01/29/25	AW	30 - 150 %
% TCMX	69		%	2	01/29/25	AW	30 - 150 %
% TCMX (Confirmation)	92		%	2	01/29/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	61		%	10	01/30/25	JRB	30 - 150 %
% DCAA (Confirmation)	61		%	10	01/30/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	77		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	69		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	56		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	62		%	10	01/30/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	01/30/25	JRB	SW8015D DRO
<u>QA/OC Surrogates</u>							
% COD (surr)	61		%	5	01/30/25	JRB	50 - 150 %
% Terphenyl (surr)	51		%	5	01/30/25	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	390	ug/kg	50	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,1-Dichloroethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,1-Dichloroethene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	390	ug/kg	50	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	390	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	390	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	390	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,2-Dichloropropane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	390	ug/kg	50	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	390	ug/kg	50	01/28/25	JLI	SW8260D
2-Hexanone	ND	33	ug/kg	1	01/29/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	33	ug/kg	1	01/29/25	JLI	SW8260D
Acetone	58	S 50	ug/kg	1	01/29/25	JLI	SW8260D
Benzene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Bromochloromethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Bromodichloromethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Bromoform	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Bromomethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Carbon Disulfide	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Carbon tetrachloride	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Chlorobenzene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Chloroethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Chloroform	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Chloromethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Cyclohexane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Dibromochloromethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Dichlorodifluoromethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Ethylbenzene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Isopropylbenzene	ND	390	ug/kg	50	01/28/25	JLI	SW8260D
m&p-Xylene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Methyl ethyl ketone	ND	39	ug/kg	1	01/29/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	1	01/29/25	JLI	SW8260D
Methylacetate	ND	5.2	ug/kg	1	01/29/25	JLI	SW8260D
Methylcyclohexane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Methylene chloride	ND	33	ug/kg	1	01/29/25	JLI	SW8260D
o-Xylene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Tetrachloroethene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Toluene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Total Xylenes	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Trichloroethene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Trichlorofluoromethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Vinyl chloride	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	01/29/25	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	01/29/25	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	01/29/25	JLI	70 - 130 %
% Toluene-d8	89		%	1	01/29/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	101		%	50	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	94		%	50	01/28/25	JLI	70 - 130 %
% Toluene-d8 (50x)	102		%	50	01/28/25	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	98	ug/kg	1	01/29/25	JLI	SW8260D
<u>Volatiles</u>							
1,2,3-Trichloropropane	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
1,2,4-Trimethylbenzene	12	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
1,3-Dichloropropane	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
n-Butylbenzene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
n-Propylbenzene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
p-Isopropyltoluene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
sec-Butylbenzene	8.1	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
tert-Butylbenzene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	01/29/25	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	01/29/25	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	01/29/25	JLI	70 - 130 %
% Toluene-d8	89		%	1	01/29/25	JLI	70 - 130 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	01/28/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	99		%	10	01/28/25	MH	70 - 130 %
Volatile Library Search	Completed				01/30/25	JLI	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dinitrophenol	ND	630	ug/Kg	1	01/28/25	MR	SW8270E
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Methylnaphthalene	330	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
2-Nitroaniline	ND	630	ug/Kg	1	01/28/25	MR	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	01/28/25	MR	SW8270E
3-Nitroaniline	ND	630	ug/Kg	1	01/28/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
4-Nitroaniline	ND	630	ug/Kg	1	01/28/25	MR	SW8270E
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E
Acenaphthene	950	270	ug/Kg	1	01/28/25	MR	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Acetophenone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Anthracene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E
Atrazine	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Benz(a)anthracene	2700	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(a)pyrene	2300	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(b)fluoranthene	2500	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(ghi)perylene	1100	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzo(k)fluoranthene	860	270	ug/Kg	1	01/28/25	MR	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Caprolactam	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Carbazole	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Chrysene	2300	270	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	290	200	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	780	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	6700	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	670	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	1100	270	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	610	270	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	3900	270	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	6800	270	ug/Kg	1	01/28/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	86		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	64		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	74		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	72		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	67		%	1	01/28/25	MR	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol	88		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	70		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	57		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	77		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	55		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	77		%	1	01/30/25	MR	30 - 130 %
Semivolatiles Library Search	Completed				01/29/25	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.

C = This parameter is subcontracted.

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.

Hexavalent Chromium:

This sample is in a reducing state.

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.

Ammonia:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

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

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

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 05, 2025

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



Analysis Report

February 05, 2025

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: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/24/25
01/27/25

Time

10:10
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51756

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	8310	51	mg/Kg	10	01/28/25	TH	SW6010D
Arsenic	4.24	0.69	mg/Kg	1	01/28/25	TH	SW6010D
Barium	120	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.41	0.27	mg/Kg	1	01/28/25	TH	SW6010D
Boron	7.1	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	28600	51	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	0.39	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.23	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	18.1	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Copper	38.2	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	14500	51	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	0.88	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	1230	51	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	5920	51	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	305	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	304	5.1	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	18.7	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Lead	212	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Tin	11.4	5.1	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.62	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	0.40	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.1	3.1	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	24.8	0.34	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	134	0.7	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	90		%		01/27/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion)	< 0.39	0.39	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
pH at 25C - Soil	9.51	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 5	5	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	110		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	330	44	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	160	88	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	490	44	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1

QA/QC Surrogates

% COD (surr)	Interference		%	5	01/29/25	JRB	40 - 140 %	
% Terphenyl (surr)	87		%	5	01/29/25	JRB	40 - 140 %	

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	5.9	mg/Kg	50	01/28/25	V	SW8015D GRO	
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	77		%	50	01/28/25	V	70 - 130 %	
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A	
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-D	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	67		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	67		%	10	01/29/25	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	81		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	86		%	2	01/28/25	SC	30 - 150 %
% TCMX	76		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	76		%	2	01/28/25	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.2	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	24	2.2	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	30	2.2	ug/Kg	2	01/30/25	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	01/30/25	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	01/30/25	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	01/30/25	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	01/30/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP	81		%	2	01/30/25	AW	30 - 150 %
% DCBP (Confirmation)	74		%	2	01/30/25	AW	30 - 150 %
% TCMX	63		%	2	01/30/25	AW	30 - 150 %
% TCMX (Confirmation)	72		%	2	01/30/25	AW	30 - 150 %

TCLP Herbicides

2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151

QA/QC Surrogates

% DCAA	63		%	10	01/30/25	JRB	30 - 150 %
% DCAA (Confirmation)	64		%	10	01/30/25	JRB	30 - 150 %

TCLP Pesticides

4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B

QA/QC Surrogates

%DCBP (Surrogate Rec)	70		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	62		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	49		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	50		%	10	01/30/25	AW	30 - 150 %

TPH DRO (C10-C28)

Diesel Range Organics (C10-C28)	ND	270	mg/Kg	5	01/29/25	JRB	SW8015D DRO
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QA/QC Surrogates

% COD (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	70		%	5	01/29/25	JRB	50 - 150 %

Volatiles (TCL)

1,1,1-Trichloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	26	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	26	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	31	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	4.1	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	26	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Styrene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	93		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	110		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	01/28/25	JLI	70 - 130 %

1,4-dioxane

1,4-dioxane	ND	77	ug/kg	1	01/28/25	JLI	SW8260D
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Volatiles

1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	93		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	110		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	01/28/25	JLI	70 - 130 %

TCLP Volatiles

1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260

QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %

Volatile Library Search Completed 01/28/25 JLI

Semivolatiles

1,1-Biphenyl	260	260	ug/Kg	1	01/28/25	KCA	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dinitrophenol	ND	590	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2-Chloronaphthalene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2-Methylnaphthalene	730	260	ug/Kg	1	01/28/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2-Nitroaniline	ND	590	ug/Kg	1	01/28/25	KCA	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	01/28/25	KCA	SW8270E
3-Nitroaniline	ND	590	ug/Kg	1	01/28/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chloroaniline	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
4-Nitroaniline	ND	590	ug/Kg	1	01/28/25	KCA	SW8270E
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E
Acenaphthene	2900	260	ug/Kg	1	01/28/25	KCA	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Acetophenone	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Anthracene	6100	260	ug/Kg	1	01/28/25	KCA	SW8270E
Atrazine	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Benz(a)anthracene	9900	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Benzaldehyde	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(a)pyrene	7600	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Benzo(b)fluoranthene	11000	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Benzo(ghi)perylene	4500	260	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(k)fluoranthene	3700	260	ug/Kg	1	01/28/25	KCA	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Caprolactam	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Carbazole	2400	370	ug/Kg	1	01/28/25	KCA	SW8270E
Chrysene	8400	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Dibenz(a,h)anthracene	1300	180	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenzofuran	2500	260	ug/Kg	1	01/28/25	KCA	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-butylphthalate	ND	730	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Fluoranthene	19000	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Fluorene	3900	260	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E

1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobutadiene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	4700	260	ug/Kg	1	01/28/25	KCA	SW8270E
Isophorone	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Naphthalene	1100	260	ug/Kg	1	01/28/25	KCA	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E
Phenanthrene	24000	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Phenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Pyrene	15000	1300	ug/Kg	5	01/29/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	71		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorophenol	56		%	1	01/28/25	KCA	30 - 130 %
% Nitrobenzene-d5	73		%	1	01/28/25	KCA	30 - 130 %
% Phenol-d5	66		%	1	01/28/25	KCA	30 - 130 %
% Terphenyl-d14	59		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl (5x)	66		%	5	01/29/25	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	78		%	5	01/29/25	KCA	30 - 130 %
% Terphenyl-d14 (5x)	45		%	5	01/29/25	KCA	30 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	91		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	73		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	59		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	79		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	57		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	76		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	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.

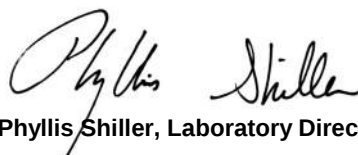
Hexavalent Chromium:
This sample is in a reducing state.

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

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

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

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



Phyllis Shiller, Laboratory Director

February 05, 2025

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



Analysis Report

February 05, 2025

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: 96 Hour
P.O.#: 0897

Custody Information

Collected by: EP
Received by: KD1
Analyzed by: see "By" below

Date

01/24/25
01/27/25

Time

10:35
16:16

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51757

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	5900	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	5.93	0.70	mg/Kg	1	01/28/25	TH	SW6010D
Barium	150	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.33	0.28	mg/Kg	1	01/28/25	TH	SW6010D
Boron	2.5	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	9650	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Cadmium	0.57	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.04	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	13.7	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Copper	56.9	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	13300	53	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	1.13	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	1340	53	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	2920	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	229	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	763	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	16.7	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Lead	327	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Tin	12.3	5.3	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.74	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Lead	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D
Thallium	< 3.2	3.2	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A
Vanadium	22.0	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Zinc	209	0.7	mg/Kg	1	01/28/25	TH	SW6010D
Percent Solid	87		%		01/27/25	CV	SW846-%Solid
ASTM C.O.D.	57	10	mg/L	1	01/30/25	NP	SM5220D
ASTM Ammonia Nitrogen	0.17	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD
ASTM pH	9.58	0.10	pH Units	1	01/28/25	KG	SM423/E150.1
ASTM O&G (hydrocarbon fraction)	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD
ASTM Total Solids	500	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr 1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B
Chromium, Hex. (SW3060A digestion)	< 0.39	0.39	mg/Kg	1	01/28/25	NP	SW7196A
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit 1
Oil and Grease by SW 9071	4700	160	mg/Kg	1	01/29/25	R/AMM	SW9071B
pH at 25C - Soil	8.16	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D 1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90 1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7 1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React 1
Redox Potential	-315		mV	1	01/27/25	ER	SM2580B-09 1
Total Cyanide (SW9010C Distill.)	< 0.57	0.57	mg/Kg	1	01/28/25	KL1/GD	SW9012B
Volatile Solids @ 500C	3.4	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15 1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311
TCLP Final PH	5.16	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023 C
<u>NJ EPH Category 1 (Fuel #2/Diesel)</u>							
>C28-C40	ND	45	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3 1
C9-C28	110	89	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3 1
Total EPH	110	45	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3 1
<u>QA/QC Surrogates</u>							

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	103		%	5	01/29/25	JRB	40 - 140 %
% Terphenyl (surr)	77		%	5	01/29/25	JRB	40 - 140 %

Gasoline Range Hydrocarbons (C6-C10)

GRO (C6-C10)	ND	5.8	mg/Kg	50	01/28/25	V	SW8015D GRO
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QA/QC Surrogates

% 2,5-Dibromotoluene (FID)	77		%	50	01/28/25	V	70 - 130 %
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Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	81		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	01/29/25	JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	01/28/25	SC	SW8082A

QA/QC Surrogates

% DCBP	76		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	82		%	2	01/28/25	SC	30 - 150 %
% TCMX	75		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	77		%	2	01/28/25	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	11	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	14	2.3	ug/Kg	2	01/30/25	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	01/30/25	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan sulfate	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	01/30/25	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	01/30/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	85		%	2	01/30/25	AW	30 - 150 %
% DCBP (Confirmation)	76		%	2	01/30/25	AW	30 - 150 %
% TCMX	68		%	2	01/30/25	AW	30 - 150 %
% TCMX (Confirmation)	70		%	2	01/30/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	59		%	10	01/30/25	JRB	30 - 150 %
% DCAA (Confirmation)	59		%	10	01/30/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	54		%	10	01/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	50		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	68		%	10	01/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	68		%	10	01/30/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH DRO (C10-C28)</u>							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	01/29/25	JRB	SW8015D DRO
<u>QA/OC Surrogates</u>							
% COD (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	118		%	5	01/29/25	JRB	50 - 150 %
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	29	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	29	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	35	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	4.7	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	29	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	90		%	1	01/28/25	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	88	ug/kg	1	01/28/25	JLI	SW8260D
<u>Volatiles</u>							
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	90		%	1	01/28/25	JLI	70 - 130 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	01/28/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (10x)	102		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %

Volatile Library Search Completed 01/29/25 JLI

Semivolatiles

1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dinitrophenol	ND	610	ug/Kg	1	01/28/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Methylnaphthalene	320	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
2-Nitroaniline	ND	610	ug/Kg	1	01/28/25	KCA	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	01/28/25	KCA	SW8270E
3-Nitroaniline	ND	610	ug/Kg	1	01/28/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
4-Nitroaniline	ND	610	ug/Kg	1	01/28/25	KCA	SW8270E
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E
Acenaphthene	1400	270	ug/Kg	1	01/28/25	KCA	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Acetophenone	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Anthracene	2300	270	ug/Kg	1	01/28/25	KCA	SW8270E
Atrazine	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benz(a)anthracene	4600	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(a)pyrene	5300	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(b)fluoranthene	6400	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(ghi)perylene	3100	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzo(k)fluoranthene	2000	270	ug/Kg	1	01/28/25	KCA	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	01/28/25	KCA	SW8270E
Caprolactam	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Carbazole	490	380	ug/Kg	1	01/28/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	4300	270	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenz(a,h)anthracene	650	190	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenzofuran	810	270	ug/Kg	1	01/28/25	KCA	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-butylphthalate	ND	760	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Fluoranthene	9700	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Fluorene	1100	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	3000	270	ug/Kg	1	01/28/25	KCA	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Naphthalene	540	270	ug/Kg	1	01/28/25	KCA	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E
Phenanthrene	8700	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Pyrene	8500	1300	ug/Kg	5	01/29/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	96		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorophenol	65		%	1	01/28/25	KCA	30 - 130 %
% Nitrobenzene-d5	82		%	1	01/28/25	KCA	30 - 130 %
% Phenol-d5	73		%	1	01/28/25	KCA	30 - 130 %
% Terphenyl-d14	67		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl (5x)	75		%	5	01/29/25	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	89		%	5	01/29/25	KCA	30 - 130 %
% Terphenyl-d14 (5x)	52		%	5	01/29/25	KCA	30 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	74		%	1	01/30/25	MR	15 - 110 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	63		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	50		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	68		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	47		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	69		%	1	01/30/25	MR	30 - 130 %
Semivolatiles Library Search	Completed				01/29/25	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.

C = This parameter is subcontracted.

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.

Hexavalent Chromium:

This sample is in a reducing state.

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.

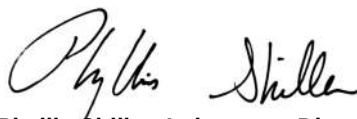
Ammonia:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

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 05, 2025

Reviewed and Released by: Rashmi Makol, Project Manager

CLIENT ID

BH-116

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51748

Sample wt/vol: 3.96 (g/mL) g

Lab File ID: 0128_22.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	21
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Date Analyzed: 01/28/25

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

[illegible]

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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

BH-117

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51749

Sample wt/vol: 6.06 (g/mL) g

Lab File ID: 0128_23.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	14
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Date Analyzed: 01/28/25

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

[illegible]

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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

BH-118

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51750

Sample wt/vol: 4.7 (g/mL) g

Lab File ID: 0128_24.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	15
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Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

[illegible]

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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

BH-119

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51751

Sample wt/vol: 4.7 (g/mL) g

Lab File ID: 0128_25.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	12
----------------------	----

Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 11 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

[illegible]

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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

DFP-123

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51752

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

Lab File ID: 0128_26.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	14
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Date Analyzed: 01/28/25

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

[illegible]

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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

DEP-115B

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51754

Sample wt/vol: 7.84 (g/mL) g

Lab File ID: 0128_28.D

Level: (low/med) Meth

Date Received: 01/27/25

% Moisture: not dec.	43
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Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 50

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 100

Number TICs found: 11 CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

[illegible]

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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

DFP-115C

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51755

Sample wt/vol: 4.51 (g/mL) g

Lab File ID: 0129 15.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	15
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Date Analyzed: 01/29/25

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 12

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

[illegible]

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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

DEP-115D

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CLIENT ID

BH-116

Client: AES-EASTSIDE

SAS No.:

SDG No.: GCS51748

Lab Sample ID: CS51748

Lab File ID: 0128_16.D

Date Received: 01/27/25

Date Extracted: 01/28/25

Date Analyzed: 1/28/2025

Dilution Factor 1

CONCENTRATION UNITS:

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

[illegible]

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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

BH-117

Client: AES-EASTSIDE

SAS No.:

SDG No.: GCS51748

Lab Sample ID: CS51749

Lab File ID: 0128_17.D

Date Received: 01/27/25

Date Extracted: 01/28/25

Date Analyzed: 1/28/2025

Dilution Factor 1

CONCENTRATION UNITS:

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

[illegible]

FORM I SEMVOA-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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

BH-118

Client: AES-EASTSIDE

SAS No.: SDG No.: GCS51748

Lab Sample ID: CS51750

Lab File ID: 0128_23.D

Date Received: 01/27/25

Date Extracted: 01/28/25

Date Analyzed: 1/28/2025

Dilution Factor 1

CONCENTRATION UNITS:

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

[illegible]

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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

BH-119

Client: AES-EASTSIDE

SAS No.:

SDG No.: GCS51748

Lab Sample ID: CS51751

Lab File ID: 0128_18.D

Date Received: 01/27/25

Date Extracted: 01/28/25

Date Analyzed: 1/28/2025

Dilution Factor 1

CONCENTRATION UNITS:

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

[illegible]

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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

DFP-123

Client: AES-EASTSIDE

SAS No.:

SDG No.: GCS51748

Lab Sample ID: CS51752

Lab File ID: 0128_19.D

Date Received: 01/27/25

Date Extracted: 01/28/25

Date Analyzed: 1/28/2025

Dilution Factor 1

CONCENTRATION UNITS:

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

[illegible]

FORM I SEMVOA-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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

DFP-115A

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51753

Sample wt/vol: 15.35 (g/mL) g

Lab File ID: 0128_20.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	17	decanted:(Y/N)	NA
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Date Extracted: 01/28/25

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

Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 (ug/L or ug/KG) ug/Kg

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

[illegible]

FORM I SEMVOA-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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

DFP-115B

Client: AES-EASTSIDE

SAS No.:

SDG No.: GCS51748

Lab Sample ID: CS51754

Lab File ID: 0128_24.D

Date Received: 01/27/25

Date Extracted: 01/28/25

Date Analyzed: 1/28/2025

Dilution Factor 1

CONCENTRATION UNITS:

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

[illegible]

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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

DFP-115C

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51755

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

Lab File ID: 0128_21.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	15	decanted:(Y/N)	NA
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Date Extracted: 01/28/25

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

Date Analyzed: 1/28/2025

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

[illegible]

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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

DFP-115D

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51756

Sample wt/vol: 15.17 (g/mL) g

Lab File ID: 0128_25.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	10	decanted:(Y/N)	NA
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Date Extracted: 01/28/25

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

Date Analyzed: 1/28/2025

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

[illegible]

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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

CLIENT ID

DFP-115F

Lab Name: Phoenix Environmental Labs

Client: AES-EASTSIDE

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GCS51748

Matrix:(soil/water) SOIL

Lab Sample ID: CS51757

Sample wt/vol: 15.11 (g/mL) g

Lab File ID: 0128_22.D

Level: (low/med) Low

Date Received: 01/27/25

% Moisture: not dec.	13	decanted:(Y/N)	NA
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Date Extracted: 01/28/25

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

Date Analyzed: 1/28/2025

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

[illegible]

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.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.



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QA/QC Report

February 05, 2025

QA/QC Data

SDG I.D.: GCS51748

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 768360 (mg/kg), QC Sample No: CS51750 40X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Chromium, Hexavalent - Soil

Chromium, Hexavalent	BRL	0.40				92.8						80 - 120	30
Chromium, Hexavalent (Ins)						98.1						80 - 120	30
Chromium, Hexavalent (Sol)						94.2						80 - 120	30

Comment:

The QC sample is in a reducing state, acceptance criteria are not applicable for samples in a reducing state. The soluble spike was analyzed twice with similar recoveries.

Additional Hexavalent Chromium criteria: MS acceptance range is 75-125%.

QA/QC Batch 768368 (mg/kg), QC Sample No: CS51519 2X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	101	104	2.9	96.7	108	11.0	70 - 130	30
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Comment:

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

QA/QC Batch 768374 (mg/L), QC Sample No: CS51519 (CS51756, CS51757)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	110			103			80 - 120	20
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Comment:

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

QA/QC Batch 768375 (mg/L), QC Sample No: CS51746 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	110			115			80 - 120	20
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Comment:

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

QA/QC Batch 768376 (mg/L), QC Sample No: CS47607 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	<0.10	<0.10	NC	107	111	3.7	106			80 - 120	20
Barium	BRL	0.10	0.40	0.29	NC	99.2	102	2.8	99.2			80 - 120	20
Cadmium	BRL	0.050	<0.050	<0.050	NC	101	104	2.9	105			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	100	103	3.0	103			80 - 120	20
Lead	BRL	0.10	0.90	0.65	32.3	97.3	100	2.7	102			80 - 120	20
Selenium	BRL	0.10	<0.10	<0.10	NC	108	111	2.7	104			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	104	107	2.8	101			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Data

SDG I.D.: GCS51748

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 768300 (mg/kg), QC Sample No: CS51566 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)													
ICP Metals - Soil													
Aluminum	BRL	5.0	9910	9700	2.10	98.5	120	19.7	NC			75 - 125	30
Antimony	BRL	3.3	<3.9	<3.5	NC	78.5	91.0	14.7	82.3			75 - 125	30
Arsenic	BRL	0.67	4.82	5.26	8.70	88.4	107	19.0	90.0			75 - 125	30
Barium	BRL	0.33	285	374	27.0	93.0	114	20.3	76.3			75 - 125	30
Beryllium	BRL	0.27	0.45	0.46	NC	92.3	112	19.3	93.4			75 - 125	30
Boron	BRL	1.3	4.9	5.8	NC	91.9	112	19.7	90.8			75 - 125	30
Cadmium	BRL	0.33	0.46	0.58	NC	92.4	111	18.3	90.6			75 - 125	30
Calcium	BRL	5.0	20400	23900	15.8	88.6	107	18.8	NC			75 - 125	30
Chromium	BRL	0.33	18.8	23.1	20.5	91.5	110	18.4	93.9			75 - 125	30
Cobalt	BRL	0.33	7.53	7.90	4.80	94.4	113	17.9	93.5			75 - 125	30
Copper	BRL	0.67	30.4	41.0	29.7	95.2	115	18.8	111			75 - 125	30
Iron	BRL	5.0	15900	18800	16.7	100	125	22.2	NC			75 - 125	30
Lead	BRL	0.33	401	463	14.4	95.8	121	23.2	66.6			75 - 125	30 m
Magnesium	BRL	5.0	3820	3880	1.60	96.9	118	19.6	NC			75 - 125	30
Manganese	BRL	0.33	259	345	28.5	101	117	14.7	>130			75 - 125	30 m
Nickel	BRL	0.33	18.0	20.4	12.5	93.2	112	18.3	93.1			75 - 125	30
Potassium	BRL	5.0	1980	1530	25.6	93.4	113	19.0	84.0			75 - 125	30
Selenium	BRL	1.3	<1.6	<1.4	NC	78.9	95.2	18.7	77.8			75 - 125	30
Silver	BRL	0.33	<0.39	<0.35	NC	94.6	115	19.5	96.8			75 - 125	30
Sodium	BRL	5.0	481	353	30.7	95.2	117	20.5	>130			75 - 125	30 m,r
Thallium	BRL	3.0	<3.5	<3.2	NC	95.1	115	18.9	91.5			75 - 125	30
Tin	BRL	5.0	8.6	6.8	NC	98.8	119	18.5	92.5			75 - 125	30
Vanadium	BRL	0.33	31.0	31.3	1.00	94.4	114	18.8	96.5			75 - 125	30
Zinc	BRL	0.67	251	313	22.0	91.4	117	24.6	97.0			75 - 125	30

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. 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.



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



QA/QC Report

February 05, 2025

QA/QC Data

SDG I.D.: GCS51748

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 768307 (mg/Kg), QC Sample No: CS50005 50X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Total Cyanide (SW9010C Distill.) BRL 0.50 <0.55 <0.55 NC 90.6 120 27.9 103 80 - 120 30

Comment:

Additional: MS acceptance range is 75-125%.

QA/QC Batch 768364 (mg/Kg), QC Sample No: CS51665 5X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Reactivity Cyanide BRL 5 <5 <5.4 NC 99.6 85 - 115 30

Reactivity Sulfide BRL 20 <20 <20 NC 96.0 80 - 120 30

QA/QC Batch 768792 (mg/L), QC Sample No: CS50749 (CS51748, CS51749, CS51750, CS51751, CS51753, CS51754, CS51755, CS51757)

Oil and Grease by EPA 1664A BRL 1.4 93.0 91.0 2.2 85 - 115 20

Comment:

A Blank spike was performed instead of a matrix spike

Additional: MS acceptance range 75-125%.

QA/QC Batch 768793 (mg/L), QC Sample No: CS51024 (CS51757)

O&G, Non-polar Material BRL 1.4 99.0 85.0 15.2 85 - 115 20

Comment:

A Blank spike was performed instead of a matrix spike

Additional criteria matrix spike acceptance range is 75-125%.

QA/QC Batch 768344 (PH), QC Sample No: CS51519 (CS51748, CS51749, CS51750, CS51751, CS51752)

pH 7.32 7.27 0.70 101 85 - 115 20

QA/QC Batch 768420 (Degree F), QC Sample No: CS51665 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Flash Point >200 >200 NC 101 75 - 125 30

Comment:

Additional criteria matrix spike acceptance range is 75-125%.

QA/QC Batch 768823 (mg/L), QC Sample No: CS51715 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51757)

C.O.D. BRL 10 21 21 NC 102 106 85 - 115 20

Comment:

Additional criteria matrix spike acceptance range is 75-125%.

QA/QC Batch 768450 (mg/kg), QC Sample No: CS51748 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51757)

Oil and Grease by SW 9071 BRL 140 2200 1900 14.6 99.0 123 80 - 120 30

Comment:

Additional: MS acceptance range 75-125%.

QA/QC Batch 768353 (PH), QC Sample No: CS51753 (CS51753, CS51754, CS51755, CS51756, CS51757)

pH 8.57 8.56 0.10 101 85 - 115 20

QA/QC Data

SDG I.D.: GCS51748

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 768354 (mV), QC Sample No: CS51753 (CS51753, CS51754, CS51755, CS51756, CS51757)													
Redox Potential			-116	-112	NC							75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 768557 (PH), QC Sample No: CS52923 (CS51748, CS51749)													
pH			9.51	9.50	0.10	100						85 - 115	20
QA/QC Batch 768558 (mV), QC Sample No: CS52923 (CS51748, CS51749)													
Redox Potential			175	199	NC							75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 768586 (mg/L), QC Sample No: CS51341 (CS51748, CS51749, CS51750, CS51751, CS51753, CS51754, CS51755, CS51757)													
Ammonia as Nitrogen	BRL	0.05	0.09	0.11	NC	90.7			102			90 - 110	20



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QA/QC Report

February 05, 2025

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 768476 (mg/kg), QC Sample No: CS51749 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)										
<u>Extractable Petroleum Hydrocarbons - Soil</u>										
C9-C28	ND	10	68	84	21.1	70	72	2.8	40 - 140	25
C9-C28 #2 Fuel / Diesel			121	122	0.8				40 - 140	25
>C28-C40	ND	10	67	81	18.9	74	64	14.5	40 - 140	25
C9 - Nonane	ND	3.3	56	68	19.4	61	48	23.9	40 - 140	25
C10 - Decane	ND	3.3	47	59	22.6	46	36	24.4	40 - 140	25 m
C12 - Dodecane	ND	3.3	57	73	24.6	50	41	19.8	40 - 140	25
C14 - Tetradecane	ND	3.3	65	83	24.3	52	41	23.7	40 - 140	25
C16 - Hexadecane	ND	3.3	66	85	25.2	66	61	7.9	40 - 140	25
C18 - Octadecane	ND	3.3	80	107	28.9	102	78	26.7	40 - 140	25 r
C20 - Eicosane	ND	3.3	79	95	18.4	77	81	5.1	40 - 140	25
C21 - Heneicosane	ND	3.3	71	86	19.1	133	>200	NC	40 - 140	25 m
C22 - Docosane	ND	3.3	92	104	12.2	92	65	34.4	40 - 140	25 r
C24 - Tetracosane	ND	3.3	71	93	26.8	84	68	21.1	40 - 140	25 r
C26 - Hexacosane	ND	3.3	71	84	16.8	55	62	12.0	40 - 140	25
C28 - Octacosane	ND	3.3	74	83	11.5	43	99	78.9	40 - 140	25 r
C30 - Tricotane	ND	3.3	73	88	18.6	64	60	6.5	40 - 140	25
C32 - Dotriacontane	ND	3.3	71	82	14.4	60	72	18.2	40 - 140	25
C34 - Tetratriacontane	ND	3.3	66	86	26.3	62	62	0.0	40 - 140	25 r
C36 - Hexatriacontane	ND	3.3	58	77	28.1	82	71	14.4	40 - 140	25 r
C38 - Octatriacontane	ND	3.3	68	77	12.4	109	64	52.0	40 - 140	25 r
C40 - Tetracontane	ND	3.3	65	77	16.9	70	54	25.8	40 - 140	25 r
% COD (surr)	68	%	71	81	13.2	62	74	17.6	40 - 140	25
% Terphenyl (surr)	92	%	68	84	21.1	67	88	27.1	40 - 140	25 r

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

QA/QC Batch 768302 (mg/Kg), QC Sample No: CS45398 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	107	119	10.6	98	133	30.3	30 - 130	30 m
% COD (surr)	82	%	89	100	11.6	76	68	11.1	50 - 150	30
% Terphenyl (surr)	70	%	70	79	12.1	66	78	16.7	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 768826 (mg/Kg), QC Sample No: CS51686 50X (CS51754 (100X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	5.0	98	101	3.0	94	97	3.1	70 - 130	30
% 2,5-Dibromotoluene (FID)	91	%	94	102	8.2	95	92	3.2	70 - 130	30

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 768610 (mg/Kg), QC Sample No: CS51748 50X (CS51748 (50X) , CS51749 (50X) , CS51750 (50X) , CS51751 (50X) , CS51752 (50X) , CS51753 (50X) , CS51755 (50X) , CS51756 (50X) , CS51757 (50X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	5.0	99	99	0.0	98	100	2.0	70 - 130	30
% 2,5-Dibromotoluene (FID)	101	%	106	106	0.0	102	96	6.1	70 - 130	30

QA/QC Batch 768455 (ug/Kg), QC Sample No: CS51370 10X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	52	60	14.3	45	55	20.0	40 - 140	30
2,4,5-TP (Silvex)	ND	130	64	69	7.5	51	64	22.6	40 - 140	30
2,4-D	ND	250	62	72	14.9	53	63	17.2	40 - 140	30
2,4-DB	ND	2500	51	55	7.5	46	57	21.4	40 - 140	30
Dalapon	ND	130	57	62	8.4	45	54	18.2	40 - 140	30
Dicamba	ND	130	73	80	9.2	52	59	12.6	40 - 140	30
Dichloroprop	ND	130	68	75	9.8	55	66	18.2	40 - 140	30
Dinoseb	ND	130	59	70	17.1	49	56	13.3	40 - 140	30
% DCAA (Surrogate Rec)	102	%	86	92	6.7	69	83	18.4	30 - 150	30
% DCAA (Surrogate Rec) (Confirm	98	%	81	94	14.9	68	81	17.4	30 - 150	30

Comment:

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 768381 (ug/L), QC Sample No: CS51625 10X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

TCLP Herbicides

2,4,5-TP (Silvex)	ND	50	91	92	1.1	86			40 - 140	20
2,4-D	ND	100	86	85	1.2	80			40 - 140	20
% DCAA	66	%	69	68	1.5	65			30 - 150	20
% DCAA (Confirmation)	63	%	64	64	0.0	63			30 - 150	20

Comment:

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 768366 (ug/Kg), QC Sample No: CS51752 2X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	92	93	1.1	95	96	1.0	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	87	87	0.0	85	81	4.8	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	74	%	95	98	3.1	91	89	2.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	87	%	101	105	3.9	99	85	15.2	30 - 150	30
% TCMX (Surrogate Rec)	75	%	92	97	5.3	108	106	1.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	72	%	84	88	4.7	96	95	1.0	30 - 150	30

QA/QC Batch 768585 (ug/L), QC Sample No: CS50000 10X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Pesticides

4,4' -DDD	ND	0.25	82	76	7.6	80			40 - 140	20
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QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4,4' -DDE	ND	0.25	86	85	1.2	87			40 - 140	20
4,4' -DDT	ND	0.25	77	73	5.3	79			40 - 140	20
a-BHC	ND	0.15	84	81	3.6	83			40 - 140	20
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20
Aldrin	ND	0.15	83	81	2.4	82			40 - 140	20
b-BHC	ND	0.15	77	75	2.6	75			40 - 140	20
Chlordane	ND	5.0	86	85	1.2	84			40 - 140	20
d-BHC	ND	0.50	79	74	6.5	74			40 - 140	20
Dieldrin	ND	0.15	87	87	0.0	89			40 - 140	20
Endosulfan I	ND	0.50	86	83	3.6	81			40 - 140	20
Endosulfan II	ND	0.50	91	90	1.1	91			40 - 140	20
Endosulfan sulfate	ND	0.50	85	83	2.4	85			40 - 140	20
Endrin	ND	0.50	96	94	2.1	97			40 - 140	20
Endrin aldehyde	ND	0.50	85	80	6.1	83			40 - 140	20
g-BHC	ND	0.15	84	84	0.0	83			40 - 140	20
Heptachlor	ND	0.50	81	79	2.5	81			40 - 140	20
Heptachlor epoxide	ND	0.50	79	78	1.3	78			40 - 140	20
Methoxychlor	ND	0.50	75	74	1.3	79			40 - 140	20
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20
% DCBP	84	%	73	69	5.6	77			30 - 150	20
% DCBP (Confirmation)	71	%	75	67	11.3	70			30 - 150	20
% TCMX	68	%	71	69	2.9	67			30 - 150	20
% TCMX (Confirmation)	66	%	70	67	4.4	65			30 - 150	20

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 768367 (ug/Kg), QC Sample No: CS51752 2X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Pesticides - Soil

4,4' -DDD	ND	1.7	100	94	6.2	70	90	25.0	40 - 140	30	
4,4' -DDE	ND	1.7	96	89	7.6	70	86	20.5	40 - 140	30	
4,4' -DDT	ND	1.7	100	93	7.3	71	88	21.4	40 - 140	30	
a-BHC	ND	1.0	78	74	5.3	59	79	29.0	40 - 140	30	
a-Chlordane	ND	3.3	91	84	8.0	67	82	20.1	40 - 140	30	
Aldrin	ND	1.0	85	80	6.1	66	78	16.7	40 - 140	30	
b-BHC	ND	1.0	81	77	5.1	59	64	8.1	40 - 140	30	
Chlordane	ND	33	98	91	7.4	73	84	14.0	40 - 140	30	
d-BHC	ND	3.3	85	79	7.3	30	76	86.8	40 - 140	30	r
Dieldrin	ND	1.0	106	99	6.8	75	93	21.4	40 - 140	30	
Endosulfan I	ND	3.3	97	90	7.5	62	86	32.4	40 - 140	30	r
Endosulfan II	ND	3.3	99	93	6.3	63	87	32.0	40 - 140	30	r
Endosulfan sulfate	ND	3.3	101	96	5.1	72	94	26.5	40 - 140	30	
Endrin	ND	3.3	115	106	8.1	79	97	20.5	40 - 140	30	
Endrin aldehyde	ND	3.3	85	59	36.1	36	66	58.8	40 - 140	30	r
Endrin ketone	ND	3.3	103	96	7.0	73	92	23.0	40 - 140	30	
g-BHC	ND	1.0	79	75	5.2	58	76	26.9	40 - 140	30	
g-Chlordane	ND	3.3	98	91	7.4	73	84	14.0	40 - 140	30	
Heptachlor	ND	3.3	83	78	6.2	65	76	15.6	40 - 140	30	
Heptachlor epoxide	ND	3.3	88	81	8.3	65	78	18.2	40 - 140	30	
Methoxychlor	ND	3.3	106	99	6.8	81	95	15.9	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	87	%	88	86	2.3	67	78	15.2	30 - 150	30	

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% DCBP (Confirmation)	80	%	96	91	5.3	74	89	18.4	30 - 150	30
% TCMX	66	%	71	67	5.8	69	74	7.0	30 - 150	30
% TCMX (Confirmation)	67	%	69	66	4.4	64	70	9.0	30 - 150	30

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 768357 (ug/kg), QC Sample No: CS51664 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	78	76	2.6	67	71	5.8	40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	76	74	2.7	67	71	5.8	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	57	57	0.0	49	54	9.7	40 - 140	30
2,3,4,6-tetrachlorophenol	ND	230	92	90	2.2	78	84	7.4	30 - 130	30
2,4,5-Trichlorophenol	ND	230	89	87	2.3	79	84	6.1	40 - 140	30
2,4,6-Trichlorophenol	ND	130	94	92	2.2	84	86	2.4	30 - 130	30
2,4-Dichlorophenol	ND	130	89	88	1.1	79	82	3.7	30 - 130	30
2,4-Dimethylphenol	ND	230	90	91	1.1	76	76	0.0	30 - 130	30
2,4-Dinitrophenol	ND	230	69	60	14.0	82	77	6.3	30 - 130	30
2,4-Dinitrotoluene	ND	130	97	93	4.2	82	88	7.1	30 - 130	30
2,6-Dinitrotoluene	ND	130	92	90	2.2	80	86	7.2	40 - 140	30
2-Chloronaphthalene	ND	230	83	82	1.2	73	76	4.0	40 - 140	30
2-Chlorophenol	ND	230	82	82	0.0	69	72	4.3	30 - 130	30
2-Methylnaphthalene	ND	230	81	79	2.5	71	74	4.1	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	86	84	2.4	74	77	4.0	40 - 140	30
2-Nitroaniline	ND	330	147	141	4.2	121	134	10.2	40 - 140	30
2-Nitrophenol	ND	230	84	84	0.0	74	80	7.8	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	84	83	1.2	75	76	1.3	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	89	84	5.8	78	81	3.8	40 - 140	30
3-Nitroaniline	ND	330	99	95	4.1	85	91	6.8	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	79	71	10.7	76	79	3.9	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	86	85	1.2	76	82	7.6	40 - 140	30
4-Chloro-3-methylphenol	ND	230	89	89	0.0	80	85	6.1	30 - 130	30
4-Chloroaniline	ND	230	86	86	0.0	72	78	8.0	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	86	83	3.6	75	80	6.5	40 - 140	30
4-Nitroaniline	ND	230	93	90	3.3	80	87	8.4	40 - 140	30
4-Nitrophenol	ND	230	99	97	2.0	89	91	2.2	30 - 130	30
Acenaphthene	ND	230	83	80	3.7	72	76	5.4	30 - 130	30
Acenaphthylene	ND	130	77	75	2.6	68	71	4.3	40 - 140	30
Acetophenone	ND	230	74	73	1.4	63	68	7.6	40 - 140	30
Anthracene	ND	230	87	84	3.5	76	83	8.8	40 - 140	30
Atrazine	ND	130	92	91	1.1	80	88	9.5	40 - 140	30
Benz(a)anthracene	ND	230	86	83	3.6	77	83	7.5	40 - 140	30
Benzaldehyde	ND	230	42	43	2.4	53	40	28.0	40 - 140	30
Benzo(a)pyrene	ND	130	90	87	3.4	80	85	6.1	40 - 140	30
Benzo(b)fluoranthene	ND	160	85	85	0.0	78	82	5.0	40 - 140	30
Benzo(ghi)perylene	ND	230	89	87	2.3	78	84	7.4	40 - 140	30
Benzo(k)fluoranthene	ND	230	87	83	4.7	76	81	6.4	40 - 140	30
Benzyl butyl phthalate	ND	230	93	91	2.2	80	87	8.4	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	76	77	1.3	66	71	7.3	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	71	71	0.0	60	65	8.0	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	92	89	3.3	79	86	8.5	40 - 140	30
Caprolactam	ND	230	81	81	0.0	71	78	9.4	40 - 140	30

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Carbazole	ND	230	88	86	2.3	76	84	10.0	40 - 140	30
Chrysene	ND	230	85	82	3.6	74	80	7.8	40 - 140	30
Dibenz(a,h)anthracene	ND	130	92	90	2.2	80	86	7.2	40 - 140	30
Dibenzofuran	ND	230	85	83	2.4	73	78	6.6	40 - 140	30
Diethyl phthalate	ND	230	90	85	5.7	77	82	6.3	40 - 140	30
Dimethylphthalate	ND	230	88	84	4.7	76	81	6.4	40 - 140	30
Di-n-butylphthalate	ND	670	91	88	3.4	78	86	9.8	40 - 140	30
Di-n-octylphthalate	ND	230	97	94	3.1	83	90	8.1	40 - 140	30
Fluoranthene	ND	230	88	85	3.5	78	84	7.4	40 - 140	30
Fluorene	ND	230	88	84	4.7	76	81	6.4	40 - 140	30
Hexachlorobenzene	ND	130	86	84	2.4	75	82	8.9	40 - 140	30
Hexachlorobutadiene	ND	230	75	77	2.6	66	71	7.3	40 - 140	30
Hexachlorocyclopentadiene	ND	230	68	67	1.5	62	60	3.3	40 - 140	30
Hexachloroethane	ND	130	72	71	1.4	61	66	7.9	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	88	86	2.3	78	84	7.4	40 - 140	30
Isophorone	ND	130	72	71	1.4	62	66	6.3	40 - 140	30
Naphthalene	ND	230	74	74	0.0	65	69	6.0	40 - 140	30
Nitrobenzene	ND	130	76	74	2.7	64	69	7.5	40 - 140	30
N-Nitrosodimethylamine	ND	230	63	65	3.1	53	55	3.7	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	77	75	2.6	65	69	6.0	40 - 140	30
N-Nitrosodiphenylamine	ND	130	83	81	2.4	72	77	6.7	40 - 140	30
Pentachlorophenol	ND	230	86	80	7.2	77	84	8.7	30 - 130	30
Phenanthrene	ND	130	84	82	2.4	75	81	7.7	40 - 140	30
Phenol	ND	230	91	90	1.1	79	82	3.7	30 - 130	30
Pyrene	ND	230	87	84	3.5	77	84	8.7	30 - 130	30
% 2,4,6-Tribromophenol	104	%	91	88	3.4	79	85	7.3	30 - 130	30
% 2-Fluorobiphenyl	81	%	80	78	2.5	69	73	5.6	30 - 130	30
% 2-Fluorophenol	80	%	76	76	0.0	64	68	6.1	30 - 130	30
% Nitrobenzene-d5	77	%	75	74	1.3	64	69	7.5	30 - 130	30
% Phenol-d5	80	%	78	77	1.3	68	71	4.3	30 - 130	30
% Terphenyl-d14	73	%	74	72	2.7	63	70	10.5	30 - 130	30

Comment:

Additional 8270 criteria: 10% 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 768650 (ug/L), QC Sample No: CS51748 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	60	63	4.9	60			40 - 140	20
2,4,5-Trichlorophenol	ND	17	76	81	6.4	81			40 - 140	20
2,4,6-Trichlorophenol	ND	17	76	81	6.4	80			30 - 130	20
2,4-Dinitrotoluene	ND	58	82	86	4.8	87			30 - 130	20
2-Methylphenol (o-cresol)	ND	17	77	83	7.5	83			40 - 140	20
3&4-Methylphenol (m&p-cresol)	ND	17	67	71	5.8	67			30 - 130	20
Hexachlorobenzene	ND	58	71	75	5.5	75			40 - 140	20
Hexachlorobutadiene	ND	58	58	61	5.0	61			40 - 140	20
Hexachloroethane	ND	58	56	62	10.2	57			40 - 140	20
Nitrobenzene	ND	58	77	80	3.8	87			40 - 140	20
Pentachlorophenol	ND	58	92	99	7.3	94			30 - 130	20
Pyridine	ND	83	19	46	83.1	54			40 - 140	20
% 2,4,6-Tribromophenol	75	%	77	82	6.3	80			15 - 110	20
% 2-Fluorobiphenyl	71	%	74	77	4.0	77			30 - 130	20
% 2-Fluorophenol	62	%	63	67	6.2	65			15 - 110	20

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QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Nitrobenzene-d5	75	%	70	74	5.6	74			30 - 130	20
% Phenol-d5	56	%	57	59	3.4	58			15 - 110	20
% Terphenyl-d14	76	%	76	79	3.9	77			30 - 130	20

Comment:

Additional 8270 criteria: 10% 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 768629 (ug/kg), QC Sample No: CS50010 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	92	90	2.2	97	97	0.0	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0	97	98	1.0	102	99	3.0	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	95	97	2.1	100	96	4.1	70 - 130	20	
1,1-Dichloroethane	ND	5.0	93	90	3.3	96	96	0.0	70 - 130	20	
1,1-Dichloroethene	ND	5.0	94	92	2.2	93	96	3.2	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	98	94	4.2	101	95	6.1	70 - 130	20	
1,2,3-Trichloropropane	ND	5.0	88	89	1.1	92	90	2.2	70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0	99	95	4.1	101	96	5.1	70 - 130	20	
1,2,4-Trimethylbenzene	ND	1.0	94	91	3.2	100	97	3.0	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	96	96	0.0	97	94	3.1	70 - 130	20	
1,2-Dibromoethane	ND	5.0	96	97	1.0	100	96	4.1	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	94	92	2.2	98	95	3.1	70 - 130	20	
1,2-Dichloroethane	ND	5.0	92	93	1.1	99	94	5.2	70 - 130	20	
1,2-Dichloropropane	ND	5.0	93	93	0.0	99	96	3.1	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	96	93	3.2	103	100	3.0	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	97	95	2.1	101	97	4.0	70 - 130	20	
1,3-Dichloropropane	ND	5.0	95	96	1.0	100	97	3.0	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	94	92	2.2	99	95	4.1	70 - 130	20	
1,4-dioxane	ND	100	90	90	0.0	105	94	11.1	70 - 130	20	
2-Hexanone	ND	25	84	87	3.5	88	82	7.1	70 - 130	20	
4-Methyl-2-pentanone	ND	25	87	91	4.5	92	88	4.4	70 - 130	20	
Acetone	ND	10	69	70	1.4	65	63	3.1	70 - 130	20	I,m
Benzene	ND	1.0	91	90	1.1	96	95	1.0	70 - 130	20	
Bromochloromethane	ND	5.0	94	92	2.2	98	95	3.1	70 - 130	20	
Bromodichloromethane	ND	5.0	96	95	1.0	99	96	3.1	70 - 130	20	
Bromoform	ND	5.0	100	101	1.0	98	98	0.0	70 - 130	20	
Bromomethane	ND	5.0	97	93	4.2	96	103	7.0	70 - 130	20	
Carbon Disulfide	ND	5.0	96	93	3.2	93	95	2.1	70 - 130	20	
Carbon tetrachloride	ND	5.0	92	90	2.2	95	98	3.1	70 - 130	20	
Chlorobenzene	ND	5.0	93	92	1.1	98	96	2.1	70 - 130	20	
Chloroethane	ND	5.0	105	100	4.9	101	112	10.3	70 - 130	20	
Chloroform	ND	5.0	93	91	2.2	98	97	1.0	70 - 130	20	
Chloromethane	ND	5.0	98	94	4.2	100	101	1.0	70 - 130	20	
cis-1,2-Dichloroethene	ND	5.0	94	91	3.2	98	96	2.1	70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0	96	97	1.0	101	97	4.0	70 - 130	20	
Cyclohexane	ND	5.0	94	91	3.2	97	97	0.0	70 - 130	20	
Dibromochloromethane	ND	3.0	100	98	2.0	101	98	3.0	70 - 130	20	
Dichlorodifluoromethane	ND	5.0	92	90	2.2	92	93	1.1	70 - 130	20	
Ethylbenzene	ND	1.0	91	90	1.1	97	96	1.0	70 - 130	20	
Isopropylbenzene	ND	1.0	94	91	3.2	100	101	1.0	70 - 130	20	
m&p-Xylene	ND	2.0	91	90	1.1	96	95	1.0	70 - 130	20	
Methyl ethyl ketone	ND	5.0	79	82	3.7	82	76	7.6	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0	93	92	1.1	93	91	2.2	70 - 130	20	
Methylacetate	ND	5.0	92	93	1.1	90	88	2.2	70 - 130	20	

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Methylcyclohexane	ND	5.0	93	89	4.4	96	96	0.0	70 - 130	20
Methylene chloride	ND	5.0	87	85	2.3	88	88	0.0	70 - 130	20
n-Butylbenzene	ND	1.0	100	94	6.2	105	102	2.9	70 - 130	20
n-Propylbenzene	ND	1.0	94	91	3.2	100	99	1.0	70 - 130	20
o-Xylene	ND	2.0	91	90	1.1	97	95	2.1	70 - 130	20
p-Isopropyltoluene	ND	1.0	97	93	4.2	103	100	3.0	70 - 130	20
sec-Butylbenzene	ND	1.0	96	91	5.3	101	101	0.0	70 - 130	20
Styrene	ND	5.0	95	94	1.1	100	98	2.0	70 - 130	20
tert-Butylbenzene	ND	1.0	93	89	4.4	100	99	1.0	70 - 130	20
Tetrachloroethene	ND	5.0	93	93	0.0	99	97	2.0	70 - 130	20
Toluene	ND	1.0	89	89	0.0	94	94	0.0	70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	94	91	3.2	93	94	1.1	70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	97	98	1.0	100	96	4.1	70 - 130	20
Trichloroethene	ND	5.0	91	91	0.0	96	95	1.0	70 - 130	20
Trichlorofluoromethane	ND	5.0	95	92	3.2	94	98	4.2	70 - 130	20
Trichlorotrifluoroethane	ND	5.0	95	92	3.2	95	95	0.0	70 - 130	20
Vinyl chloride	ND	5.0	93	90	3.3	93	94	1.1	70 - 130	20
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	100	100	0.0	70 - 130	20
% Bromofluorobenzene	98	%	101	103	2.0	101	101	0.0	70 - 130	20
% Dibromofluoromethane	97	%	99	99	0.0	99	98	1.0	70 - 130	20
% Toluene-d8	103	%	100	100	0.0	100	100	0.0	70 - 130	20

Comment:

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

QA/QC Batch 768629H (ug/kg), QC Sample No: CS50010 50X (CS51754 (50X) , CS51755 (50X))

Volatiles - Soil (High Level)

1,1,1-Trichloroethane	ND	250	97	93	4.2	89	94	5.5	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	250	110	107	2.8	103	108	4.7	70 - 130	20	
1,1,2-Trichloroethane	ND	250	106	104	1.9	100	105	4.9	70 - 130	20	
1,1-Dichloroethane	ND	250	99	95	4.1	94	98	4.2	70 - 130	20	
1,1-Dichloroethene	ND	250	97	92	5.3	89	92	3.3	70 - 130	20	
1,2,3-Trichlorobenzene	ND	250	109	108	0.9	101	109	7.6	70 - 130	20	
1,2,3-Trichloropropane	ND	250	93	92	1.1	90	94	4.3	70 - 130	20	
1,2,4-Trichlorobenzene	ND	250	113	110	2.7	101	111	9.4	70 - 130	20	
1,2,4-Trimethylbenzene	ND	250	103	100	3.0	97	102	5.0	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	250	99	96	3.1	89	95	6.5	70 - 130	20	
1,2-Dibromoethane	ND	250	104	101	2.9	97	103	6.0	70 - 130	20	
1,2-Dichlorobenzene	ND	250	103	101	2.0	97	102	5.0	70 - 130	20	
1,2-Dichloroethane	ND	250	102	101	1.0	98	102	4.0	70 - 130	20	
1,2-Dichloropropane	ND	250	103	100	3.0	98	103	5.0	70 - 130	20	
1,3,5-Trimethylbenzene	ND	250	104	101	2.9	98	102	4.0	70 - 130	20	
1,3-Dichlorobenzene	ND	250	108	105	2.8	100	106	5.8	70 - 130	20	
1,3-Dichloropropane	ND	250	105	102	2.9	99	104	4.9	70 - 130	20	
1,4-Dichlorobenzene	ND	250	106	103	2.9	98	103	5.0	70 - 130	20	
1,4-dioxane	ND	5000	101	93	8.2	90	95	5.4	70 - 130	20	
2-Hexanone	ND	1300	96	95	1.0	88	96	8.7	70 - 130	20	
4-Methyl-2-pentanone	ND	1300	99	98	1.0	93	98	5.2	70 - 130	20	
Acetone	ND	500	61	56	8.5	54	56	3.6	70 - 130	20	I,m
Benzene	ND	250	100	97	3.0	95	99	4.1	70 - 130	20	
Bromochloromethane	ND	250	101	98	3.0	96	101	5.1	70 - 130	20	
Bromodichloromethane	ND	250	100	97	3.0	89	97	8.6	70 - 130	20	
Bromoform	ND	250	103	97	6.0	82	93	12.6	70 - 130	20	
Bromomethane	ND	250	58	54	7.1	55	56	1.8	70 - 130	20	I,m

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Carbon Disulfide	ND	250	99	92	7.3	88	91	3.4	70 - 130	20
Carbon tetrachloride	ND	250	90	84	6.9	71	79	10.7	70 - 130	20
Chlorobenzene	ND	250	103	98	5.0	96	101	5.1	70 - 130	20
Chloroethane	ND	250	17	15	12.5	16	16	0.0	70 - 130	20
Chloroform	ND	250	98	95	3.1	95	98	3.1	70 - 130	20
Chloromethane	ND	250	102	97	5.0	99	100	1.0	70 - 130	20
cis-1,2-Dichloroethene	ND	250	101	98	3.0	97	100	3.0	70 - 130	20
cis-1,3-Dichloropropene	ND	250	103	101	2.0	94	101	7.2	70 - 130	20
Cyclohexane	ND	250	102	97	5.0	97	99	2.0	70 - 130	20
Dibromochloromethane	ND	150	101	96	5.1	85	94	10.1	70 - 130	20
Dichlorodifluoromethane	ND	250	96	92	4.3	93	93	0.0	70 - 130	20
Ethylbenzene	ND	250	101	96	5.1	94	99	5.2	70 - 130	20
Isopropylbenzene	ND	250	101	97	4.0	96	99	3.1	70 - 130	20
m&p-Xylene	ND	250	101	97	4.0	95	99	4.1	70 - 130	20
Methyl ethyl ketone	ND	250	88	86	2.3	83	87	4.7	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	250	94	91	3.2	87	92	5.6	70 - 130	20
Methylacetate	ND	250	90	87	3.4	81	90	10.5	70 - 130	20
Methylcyclohexane	ND	250	104	99	4.9	98	101	3.0	70 - 130	20
Methylene chloride	ND	250	89	85	4.6	83	88	5.8	70 - 130	20
n-Butylbenzene	ND	250	112	108	3.6	102	108	5.7	70 - 130	20
n-Propylbenzene	ND	250	103	99	4.0	97	101	4.0	70 - 130	20
o-Xylene	ND	250	100	97	3.0	95	99	4.1	70 - 130	20
p-Isopropyltoluene	ND	250	107	103	3.8	100	104	3.9	70 - 130	20
sec-Butylbenzene	ND	250	104	101	2.9	99	102	3.0	70 - 130	20
Styrene	ND	250	106	103	2.9	100	105	4.9	70 - 130	20
tert-Butylbenzene	ND	250	102	98	4.0	96	100	4.1	70 - 130	20
Tetrachloroethene	ND	250	106	102	3.8	99	104	4.9	70 - 130	20
Toluene	ND	250	98	95	3.1	94	97	3.1	70 - 130	20
trans-1,2-Dichloroethene	ND	250	97	92	5.3	89	94	5.5	70 - 130	20
trans-1,3-Dichloropropene	ND	250	104	102	1.9	92	100	8.3	70 - 130	20
Trichloroethene	ND	250	102	98	4.0	95	99	4.1	70 - 130	20
Trichlorofluoromethane	ND	250	13	12	8.0	13	12	8.0	70 - 130	20
Trichlorotrifluoroethane	ND	250	101	95	6.1	94	97	3.1	70 - 130	20
Vinyl chloride	ND	250	87	82	5.9	84	86	2.4	70 - 130	20
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	101	101	0.0	70 - 130	20
% Bromofluorobenzene	101	%	105	107	1.9	105	105	0.0	70 - 130	20
% Dibromofluoromethane	96	%	99	101	2.0	99	100	1.0	70 - 130	20
% Toluene-d8	102	%	99	100	1.0	99	100	1.0	70 - 130	20

Comment:

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

QA/QC Batch 768621 (ug/L), QC Sample No: CS50976 (CS51748 (10X) , CS51749 (10X) , CS51750 (10X) , CS51751 (10X) , CS51752 (10X) , CS51753 (10X) , CS51754 (10X) , CS51755 (10X) , CS51756 (10X) , CS51757 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	98	95	3.1	105	112	6.5	70 - 130	20
1,2-Dichloroethane	ND	0.60	103	102	1.0	106	114	7.3	70 - 130	20
1,4-Dichlorobenzene	ND	1.0	102	102	0.0	96	104	8.0	70 - 130	20
Benzene	ND	0.70	102	101	1.0	109	119	8.8	70 - 130	20
Carbon tetrachloride	ND	5.0	99	97	2.0	102	116	12.8	70 - 130	20
Chlorobenzene	ND	1.0	104	103	1.0	104	113	8.3	70 - 130	20
Chloroform	ND	5.0	105	102	2.9	111	120	7.8	70 - 130	20
Methyl ethyl ketone	ND	5.0	109	105	3.7	115	124	7.5	70 - 130	20
Tetrachloroethene	ND	1.0	103	102	1.0	100	108	7.7	70 - 130	20

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Trichloroethene	ND	5.0	103	101	2.0	106	117	9.9	70 - 130	20
Vinyl chloride	ND	5.0	104	101	2.9	114	124	8.4	70 - 130	20
% 1,2-dichlorobenzene-d4	98	%	100	101	1.0	103	101	2.0	70 - 130	20
% Bromofluorobenzene	96	%	101	102	1.0	101	101	0.0	70 - 130	20
% Dibromofluoromethane	101	%	99	99	0.0	99	98	1.0	70 - 130	20
% Toluene-d8	99	%	99	100	1.0	100	100	0.0	70 - 130	20

Comment:

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

QA/QC Batch 768828 (ug/kg), QC Sample No: CS51258 (CS51755)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	95	102	7.1	91	93	2.2	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	97	105	7.9	94	96	2.1	70 - 130	20	
1,1-Dichloroethane	ND	5.0	95	102	7.1	95	95	0.0	70 - 130	20	
1,1-Dichloroethene	ND	5.0	99	107	7.8	91	93	2.2	70 - 130	20	
1,2,3-Trichloropropane	ND	5.0	95	100	5.1	98	103	5.0	70 - 130	20	
1,2,4-Trimethylbenzene	ND	1.0	98	104	5.9	77	85	9.9	70 - 130	20	
1,2-Dibromoethane	ND	5.0	99	105	5.9	93	96	3.2	70 - 130	20	
1,2-Dichloroethane	ND	5.0	94	101	7.2	94	94	0.0	70 - 130	20	
1,2-Dichloropropane	ND	5.0	95	102	7.1	94	96	2.1	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	100	107	6.8	84	95	12.3	70 - 130	20	
1,3-Dichloropropane	ND	5.0	97	104	7.0	97	100	3.0	70 - 130	20	
1,4-dioxane	ND	100	94	106	12.0	107	112	4.6	70 - 130	20	
2-Hexanone	ND	25	97	102	5.0	86	88	2.3	70 - 130	20	
4-Methyl-2-pentanone	ND	25	98	103	5.0	90	92	2.2	70 - 130	20	
Acetone	ND	10	80	83	3.7	88	89	1.1	70 - 130	20	
Benzene	ND	1.0	94	100	6.2	91	93	2.2	70 - 130	20	
Bromochloromethane	ND	5.0	96	102	6.1	92	94	2.2	70 - 130	20	
Bromodichloromethane	ND	5.0	97	103	6.0	94	96	2.1	70 - 130	20	
Bromoform	ND	5.0	103	111	7.5	88	96	8.7	70 - 130	20	
Bromomethane	ND	5.0	102	109	6.6	96	98	2.1	70 - 130	20	
Carbon Disulfide	ND	5.0	101	109	7.6	75	83	10.1	70 - 130	20	
Carbon tetrachloride	ND	5.0	99	105	5.9	86	90	4.5	70 - 130	20	
Chlorobenzene	ND	5.0	96	102	6.1	85	91	6.8	70 - 130	20	
Chloroethane	ND	5.0	107	113	5.5	102	105	2.9	70 - 130	20	
Chloroform	ND	5.0	95	102	7.1	93	94	1.1	70 - 130	20	
Chloromethane	ND	5.0	100	106	5.8	100	98	2.0	70 - 130	20	
cis-1,2-Dichloroethene	ND	5.0	96	104	8.0	91	92	1.1	70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0	98	106	7.8	91	93	2.2	70 - 130	20	
Cyclohexane	ND	5.0	99	105	5.9	77	84	8.7	70 - 130	20	
Dibromochloromethane	ND	3.0	99	106	6.8	94	100	6.2	70 - 130	20	
Dichlorodifluoromethane	ND	5.0	93	99	6.3	86	87	1.2	70 - 130	20	
Ethylbenzene	ND	1.0	94	101	7.2	83	90	8.1	70 - 130	20	
m&p-Xylene	ND	2.0	96	102	6.1	79	85	7.3	70 - 130	20	
Methyl ethyl ketone	ND	5.0	93	99	6.3	79	80	1.3	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0	95	104	9.0	97	98	1.0	70 - 130	20	
Methylacetate	ND	5.0	100	106	5.8	98	92	6.3	70 - 130	20	
Methylcyclohexane	ND	5.0	99	104	4.9	57	65	13.1	70 - 130	20	m
Methylene chloride	ND	5.0	90	97	7.5	92	93	1.1	70 - 130	20	
n-Butylbenzene	ND	1.0	107	112	4.6	60	69	14.0	70 - 130	20	m
n-Propylbenzene	ND	1.0	100	105	4.9	83	92	10.3	70 - 130	20	
o-Xylene	ND	2.0	94	100	6.2	83	89	7.0	70 - 130	20	
p-Isopropyltoluene	ND	1.0	102	108	5.7	68	79	15.0	70 - 130	20	m

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
sec-Butylbenzene	ND	1.0	101	107	5.8	67	76	12.6	70 - 130	20	m
Styrene	ND	5.0	97	104	7.0	83	88	5.8	70 - 130	20	
tert-Butylbenzene	ND	1.0	97	103	6.0	74	84	12.7	70 - 130	20	
Tetrachloroethene	ND	5.0	97	104	7.0	97	105	7.9	70 - 130	20	
Toluene	ND	1.0	93	99	6.3	85	89	4.6	70 - 130	20	
trans-1,2-Dichloroethene	ND	5.0	98	106	7.8	84	90	6.9	70 - 130	20	
trans-1,3-Dichloropropene	ND	5.0	99	108	8.7	86	90	4.5	70 - 130	20	
Trichloroethene	ND	5.0	98	106	7.8	98	106	7.8	70 - 130	20	
Trichlorofluoromethane	ND	5.0	102	109	6.6	93	95	2.1	70 - 130	20	
Trichlorotrifluoroethane	ND	5.0	99	107	7.8	87	92	5.6	70 - 130	20	
Vinyl chloride	ND	5.0	97	104	7.0	90	92	2.2	70 - 130	20	
% 1,2-dichlorobenzene-d4	101	%	101	100	1.0	99	100	1.0	70 - 130	20	
% Bromofluorobenzene	98	%	100	100	0.0	96	97	1.0	70 - 130	20	
% Dibromofluoromethane	97	%	97	98	1.0	99	98	1.0	70 - 130	20	
% Toluene-d8	104	%	100	100	0.0	100	100	0.0	70 - 130	20	

Comment:

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

QA/QC Batch 768602 (ug/kg), QC Sample No: CS51756 (CS51756, CS51757)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	100	109	8.6	95	99	4.1	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0	102	107	4.8	129	125	3.1	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	102	105	2.9	94	91	3.2	70 - 130	20	
1,1-Dichloroethane	ND	5.0	98	106	7.8	96	100	4.1	70 - 130	20	
1,1-Dichloroethene	ND	5.0	103	109	5.7	93	98	5.2	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	107	109	1.9	37	33	11.4	70 - 130	20	m
1,2,3-Trichloropropane	ND	5.0	94	101	7.2	133	133	0.0	70 - 130	20	m
1,2,4-Trichlorobenzene	ND	5.0	107	108	0.9	47	41	13.6	70 - 130	20	m
1,2,4-Trimethylbenzene	ND	1.0	100	102	2.0	91	87	4.5	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	105	111	5.6	108	107	0.9	70 - 130	20	
1,2-Dibromoethane	ND	5.0	102	104	1.9	95	97	2.1	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	104	107	2.8	84	80	4.9	70 - 130	20	
1,2-Dichloroethane	ND	5.0	104	106	1.9	98	94	4.2	70 - 130	20	
1,2-Dichloropropane	ND	5.0	103	105	1.9	95	95	0.0	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	101	104	2.9	95	89	6.5	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	101	104	2.9	84	79	6.1	70 - 130	20	
1,3-Dichloropropane	ND	5.0	100	100	0.0	99	101	2.0	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	106	109	2.8	87	80	8.4	70 - 130	20	
1,4-dioxane	ND	100	101	99	2.0	110	112	1.8	70 - 130	20	
2-Hexanone	ND	25	93	95	2.1	82	82	0.0	70 - 130	20	
4-Methyl-2-pentanone	ND	25	102	109	6.6	92	92	0.0	70 - 130	20	
Acetone	ND	10	96	103	7.0	94	94	0.0	70 - 130	20	
Benzene	ND	1.0	100	102	2.0	92	90	2.2	70 - 130	20	
Bromochloromethane	ND	5.0	99	106	6.8	95	98	3.1	70 - 130	20	
Bromodichloromethane	ND	5.0	104	107	2.8	93	93	0.0	70 - 130	20	
Bromoform	ND	5.0	97	98	1.0	83	82	1.2	70 - 130	20	
Bromomethane	ND	5.0	103	111	7.5	90	94	4.3	70 - 130	20	
Carbon Disulfide	ND	5.0	100	109	8.6	81	83	2.4	70 - 130	20	
Carbon tetrachloride	ND	5.0	99	109	9.6	88	90	2.2	70 - 130	20	
Chlorobenzene	ND	5.0	102	103	1.0	90	88	2.2	70 - 130	20	
Chloroethane	ND	5.0	106	117	9.9	100	104	3.9	70 - 130	20	
Chloroform	ND	5.0	97	105	7.9	94	98	4.2	70 - 130	20	
Chloromethane	ND	5.0	110	119	7.9	102	107	4.8	70 - 130	20	

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	5.0	101	109	7.6	94	97	3.1	70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	105	107	1.9	89	86	3.4	70 - 130	20
Cyclohexane	ND	5.0	96	106	9.9	72	72	0.0	70 - 130	20
Dibromochloromethane	ND	3.0	101	102	1.0	96	96	0.0	70 - 130	20
Dichlorodifluoromethane	ND	5.0	106	115	8.1	94	99	5.2	70 - 130	20
Ethylbenzene	ND	1.0	99	100	1.0	87	85	2.3	70 - 130	20
Isopropylbenzene	ND	1.0	104	108	3.8	111	106	4.6	70 - 130	20
m&p-Xylene	ND	2.0	98	100	2.0	83	80	3.7	70 - 130	20
Methyl ethyl ketone	ND	5.0	88	96	8.7	79	87	9.6	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	96	102	6.1	93	102	9.2	70 - 130	20
Methylacetate	ND	5.0	97	103	6.0	96	93	3.2	70 - 130	20
Methylcyclohexane	ND	5.0	107	113	5.5	55	51	7.5	70 - 130	20 m
Methylene chloride	ND	5.0	94	100	6.2	95	100	5.1	70 - 130	20
n-Butylbenzene	ND	1.0	111	113	1.8	63	57	10.0	70 - 130	20 m
n-Propylbenzene	ND	1.0	103	108	4.7	99	94	5.2	70 - 130	20
o-Xylene	ND	2.0	100	101	1.0	85	83	2.4	70 - 130	20
p-Isopropyltoluene	ND	1.0	104	107	2.8	69	67	2.9	70 - 130	20 m
sec-Butylbenzene	ND	1.0	101	106	4.8	75	70	6.9	70 - 130	20
Styrene	ND	5.0	99	100	1.0	80	77	3.8	70 - 130	20
tert-Butylbenzene	ND	1.0	102	106	3.8	89	84	5.8	70 - 130	20
Tetrachloroethene	ND	5.0	109	112	2.7	80	77	3.8	70 - 130	20
Toluene	ND	1.0	102	106	3.8	88	85	3.5	70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	102	105	2.9	92	96	4.3	70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	104	106	1.9	81	80	1.2	70 - 130	20
Trichloroethene	ND	5.0	103	106	2.9	93	89	4.4	70 - 130	20
Trichlorofluoromethane	ND	5.0	102	111	8.5	95	100	5.1	70 - 130	20
Trichlorotrifluoroethane	ND	5.0	103	112	8.4	89	92	3.3	70 - 130	20
Vinyl chloride	ND	5.0	102	110	7.5	95	98	3.1	70 - 130	20
% 1,2-dichlorobenzene-d4	96	%	101	100	1.0	102	98	4.0	70 - 130	20
% Bromofluorobenzene	100	%	100	97	3.0	86	87	1.2	70 - 130	20
% Dibromofluoromethane	109	%	96	104	8.0	100	103	3.0	70 - 130	20
% Toluene-d8	91	%	103	103	0.0	96	95	1.0	70 - 130	20

Comment:

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

QA/QC Batch 768652H (ug/kg), QC Sample No: CS52923 50X (CS51750 (50X))

Volatiles - Soil (High Level)

1,1,2,2-Tetrachloroethane	ND	250	109	111	1.8	97	100	3.0	70 - 130	20
1,2,3-Trichlorobenzene	ND	250	117	118	0.9	109	111	1.8	70 - 130	20
1,2,4-Trichlorobenzene	ND	250	121	123	1.6	114	117	2.6	70 - 130	20
1,2-Dibromo-3-chloropropane	ND	250	122	126	3.2	106	108	1.9	70 - 130	20
1,2-Dichlorobenzene	ND	250	103	104	1.0	98	101	3.0	70 - 130	20
1,3-Dichlorobenzene	ND	250	101	104	2.9	99	103	4.0	70 - 130	20
1,4-Dichlorobenzene	ND	250	100	103	3.0	98	101	3.0	70 - 130	20
Isopropylbenzene	ND	250	107	112	4.6	109	115	5.4	70 - 130	20
% 1,2-dichlorobenzene-d4	104	%	103	101	2.0	102	100	2.0	70 - 130	20
% Bromofluorobenzene	99	%	101	100	1.0	98	100	2.0	70 - 130	20
% Dibromofluoromethane	98	%	98	98	0.0	94	92	2.2	70 - 130	20
% Toluene-d8	98	%	101	101	0.0	99	100	1.0	70 - 130	20

Comment:

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

QA/QC Data

SDG I.D.: GCS51748

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

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
- (ISO) - Isotope Dilution


Phyllis Shiller, Laboratory Director
February 05, 2025

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51748	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	4100	290	1000	1000	ug/Kg
CS51748	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	290	500	500	ug/Kg
CS51748	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3700	290	1000	1000	ug/Kg
CS51748	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4100	290	1000	1000	ug/Kg
CS51748	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	5100	290	1000	1000	ug/Kg
CS51748	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	460	210	330	330	ug/Kg
CS51748	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	290	500	500	ug/Kg
CS51748	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	460	210	330	330	ug/Kg
CS51748	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	290	800	800	ug/Kg
CS51748	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5100	290	1000	1000	ug/Kg
CS51748	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3700	290	1000	1000	ug/Kg
CS51748	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4100	290	1000	1000	ug/Kg
CS51748	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	290	1000	1000	ug/Kg
CS51748	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.7	2.5	3.3	3.3	ug/Kg
CS51748	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.58	0.03	0.18	0.18	mg/Kg
CS51748	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	323	0.41	63	63	mg/Kg
CS51748	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	282	0.8	109	109	mg/Kg
CS51749	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	3600	270	1000	1000	ug/Kg
CS51749	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3600	270	1000	1000	ug/Kg
CS51749	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1800	270	500	500	ug/Kg
CS51749	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4400	270	1000	1000	ug/Kg
CS51749	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	450	190	330	330	ug/Kg
CS51749	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3700	270	1000	1000	ug/Kg
CS51749	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	270	1000	1000	ug/Kg
CS51749	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1800	270	500	500	ug/Kg
CS51749	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	800	800	ug/Kg
CS51749	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4400	270	1000	1000	ug/Kg
CS51749	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3600	270	1000	1000	ug/Kg
CS51749	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3700	270	1000	1000	ug/Kg
CS51749	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	450	190	330	330	ug/Kg
CS51749	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	558	0.38	400	400	mg/Kg
CS51749	BA-SM	Barium	NY / 375-6.8 Metals / Residential Restricted	558	0.38	400	400	mg/Kg
CS51749	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	558	0.38	350	350	mg/Kg
CS51749	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	63.8	0.8	50	50	mg/kg
CS51749	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.75	0.03	0.18	0.18	mg/Kg
CS51749	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	5050	3.8	1000	1000	mg/Kg
CS51749	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	5050	3.8	400	400	mg/Kg
CS51749	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	5050	3.8	63	63	mg/Kg
CS51749	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	8.33	0.10	5	5	mg/L
CS51749	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	444	0.8	109	109	mg/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51750	\$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	240	50	50	50	ug/kg
CS51750	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1300	270	1000	1000	ug/Kg
CS51750	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	270	1000	1000	ug/Kg
CS51750	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	270	1000	1000	ug/Kg
CS51750	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	770	270	500	500	ug/Kg
CS51750	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	1000	1000	ug/Kg
CS51750	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	1000	1000	ug/Kg
CS51750	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	770	270	500	500	ug/Kg
CS51750	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	11	2.3	3.3	3.3	ug/Kg
CS51750	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	18	2.3	3.3	3.3	ug/Kg
CS51750	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	45	2.3	3.3	3.3	ug/Kg
CS51750	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	86.7	0.7	50	50	mg/kg
CS51750	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.42	0.74	0.81	0.81	mg/Kg
CS51750	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.42	0.74	0.18	0.18	mg/Kg
CS51750	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	260	0.37	63	63	mg/Kg
CS51750	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	209	0.7	109	109	mg/Kg
CS51751	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1200	260	1000	1000	ug/Kg
CS51751	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	260	1000	1000	ug/Kg
CS51751	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	260	1000	1000	ug/Kg
CS51751	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	260	1000	1000	ug/Kg
CS51751	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	710	260	500	500	ug/Kg
CS51751	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	1000	1000	ug/Kg
CS51751	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	260	1000	1000	ug/Kg
CS51751	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	260	1000	1000	ug/Kg
CS51751	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	710	260	500	500	ug/Kg
CS51751	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	54	2.3	3.3	3.3	ug/Kg
CS51751	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	65	2.3	3.3	3.3	ug/Kg
CS51751	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	28	2.3	3.3	3.3	ug/Kg
CS51751	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	98.7	0.7	50	50	mg/kg
CS51751	HG-SM	Mercury	NY / 375-6.8 Metals / Commercial	4.95	0.69	2.8	2.8	mg/Kg
CS51751	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	4.95	0.69	0.81	0.81	mg/Kg
CS51751	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	4.95	0.69	0.18	0.18	mg/Kg
CS51751	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	339	0.33	63	63	mg/Kg
CS51751	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	461	0.7	109	109	mg/Kg
CS51752	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	3500	270	1000	1000	ug/Kg
CS51752	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4000	270	1000	1000	ug/Kg
CS51752	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	450	190	330	330	ug/Kg
CS51752	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3200	270	1000	1000	ug/Kg
CS51752	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	270	500	500	ug/Kg
CS51752	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3500	270	1000	1000	ug/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51752	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	450	190	330	330	ug/Kg
CS51752	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	270	500	500	ug/Kg
CS51752	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	800	800	ug/Kg
CS51752	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3500	270	1000	1000	ug/Kg
CS51752	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3200	270	1000	1000	ug/Kg
CS51752	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3000	270	1000	1000	ug/Kg
CS51752	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4000	270	1000	1000	ug/Kg
CS51752	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	75.9	0.35	63	63	mg/Kg
CS51753	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	9400	1400	5600	5600	ug/Kg
CS51753	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Commercial	7800	270	5600	5600	ug/Kg
CS51753	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	1100	200	560	560	ug/Kg
CS51753	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	8000	1400	1000	1000	ug/Kg
CS51753	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4600	270	500	500	ug/Kg
CS51753	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	200	330	330	ug/Kg
CS51753	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	7000	270	3900	3900	ug/Kg
CS51753	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	9400	1400	1000	1000	ug/Kg
CS51753	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	8000	1400	1000	1000	ug/Kg
CS51753	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	7800	270	1000	1000	ug/Kg
CS51753	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	9400	1400	1000	1000	ug/Kg
CS51753	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3200	270	800	800	ug/Kg
CS51753	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7000	270	1000	1000	ug/Kg
CS51753	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7800	270	1000	1000	ug/Kg
CS51753	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	200	330	330	ug/Kg
CS51753	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4600	270	500	500	ug/Kg
CS51753	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	8000	1400	1000	1000	ug/Kg
CS51753	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.36	0.03	0.18	0.18	mg/Kg
CS51753	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	34.1	0.42	30	30	mg/Kg
CS51753	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	145	0.42	63	63	mg/Kg
CS51754	\$8260_TCL_SM	Ethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	2300	750	1000	1000	ug/kg
CS51754	\$8260_TCL_SM	Total Xylenes	NY / 375-6.8 Volatiles / Unrestricted Use Soil	4300	250	260	260	ug/kg
CS51754	\$8270_TCLR	3&4-Methylphenol (m&p-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	710	580	330	330	ug/Kg
CS51754	\$8270_TCLR	Naphthalene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	44000	4100	12000	12000	ug/Kg
CS51754	\$8270_TCLR	Acenaphthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	36000	4100	20000	20000	ug/Kg
CS51754	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Commercial	22000	4100	5600	5600	ug/Kg
CS51754	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	22000	4100	1000	1000	ug/Kg
CS51754	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	22000	4100	1000	1000	ug/Kg
CS51754	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	20000	4100	3900	3900	ug/Kg
CS51754	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	20000	4100	1000	1000	ug/Kg
CS51754	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	15000	4100	5600	5600	ug/Kg
CS51754	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	15000	4100	1000	1000	ug/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51754	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	15000	4100	1000	1000	ug/Kg
CS51754	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4700	410	3900	3900	ug/Kg
CS51754	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4700	410	800	800	ug/Kg
CS51754	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	18000	4100	1000	1000	ug/Kg
CS51754	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	18000	4100	1000	1000	ug/Kg
CS51754	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	18000	4100	1000	1000	ug/Kg
CS51754	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	5500	410	500	500	ug/Kg
CS51754	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5500	410	500	500	ug/Kg
CS51754	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	1900	290	560	560	ug/Kg
CS51754	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1900	290	330	330	ug/Kg
CS51754	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1900	290	330	330	ug/Kg
CS51754	\$NYADDSM	1,2,4-Trimethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	7200	750	3600	3600	ug/Kg
CS51754	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.7	3.5	3.3	3.3	ug/Kg
CS51754	AG-SM	Silver	NY / 375-6.8 Metals / Unrestricted Use Soil	9.24	0.56	2	2	mg/Kg
CS51754	AS-SM	Arsenic	NY / 375-6.8 Metals / Commercial	33.9	1.1	16	16	mg/Kg
CS51754	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	33.9	1.1	16	16	mg/Kg
CS51754	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	33.9	1.1	13	13	mg/Kg
CS51754	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	839	0.56	400	400	mg/Kg
CS51754	BA-SM	Barium	NY / 375-6.8 Metals / Residential Restricted	839	0.56	400	400	mg/Kg
CS51754	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	839	0.56	350	350	mg/Kg
CS51754	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	2.54	0.56	2.5	2.5	mg/Kg
CS51754	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	268	1.1	50	50	mg/kg
CS51754	HG-SM	Mercury	NY / 375-6.8 Metals / Commercial	4.47	0.42	2.8	2.8	mg/Kg
CS51754	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	4.47	0.42	0.81	0.81	mg/Kg
CS51754	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	4.47	0.42	0.18	0.18	mg/Kg
CS51754	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	35.9	0.56	30	30	mg/Kg
CS51754	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	1100	0.56	1000	1000	mg/Kg
CS51754	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	1100	0.56	400	400	mg/Kg
CS51754	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	1100	0.56	63	63	mg/Kg
CS51754	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	5.20	0.10	5	5	mg/L
CS51754	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	932	1.1	109	109	mg/Kg
CS51755	\$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	58	50	50	50	ug/kg
CS51755	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	2300	270	1000	1000	ug/Kg
CS51755	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2700	270	1000	1000	ug/Kg
CS51755	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2300	270	1000	1000	ug/Kg
CS51755	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	270	500	500	ug/Kg
CS51755	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2500	270	1000	1000	ug/Kg
CS51755	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	270	1000	1000	ug/Kg
CS51755	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	500	500	ug/Kg
CS51755	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	270	1000	1000	ug/Kg
CS51755	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	270	1000	1000	ug/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51755	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	270	1000	1000	ug/Kg
CS51755	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	860	270	800	800	ug/Kg
CS51755	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.83	0.03	0.81	0.81	mg/Kg
CS51755	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.83	0.03	0.18	0.18	mg/Kg
CS51755	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	133	0.41	63	63	mg/Kg
CS51756	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	11000	1300	5600	5600	ug/Kg
CS51756	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Commercial	9900	1300	5600	5600	ug/Kg
CS51756	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	7600	1300	1000	1000	ug/Kg
CS51756	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	1300	180	560	560	ug/Kg
CS51756	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4700	260	500	500	ug/Kg
CS51756	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	180	330	330	ug/Kg
CS51756	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	8400	1300	3900	3900	ug/Kg
CS51756	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	11000	1300	1000	1000	ug/Kg
CS51756	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	7600	1300	1000	1000	ug/Kg
CS51756	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	9900	1300	1000	1000	ug/Kg
CS51756	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	11000	1300	1000	1000	ug/Kg
CS51756	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3700	260	800	800	ug/Kg
CS51756	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	8400	1300	1000	1000	ug/Kg
CS51756	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	9900	1300	1000	1000	ug/Kg
CS51756	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	180	330	330	ug/Kg
CS51756	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4700	260	500	500	ug/Kg
CS51756	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7600	1300	1000	1000	ug/Kg
CS51756	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	30	2.2	3.3	3.3	ug/Kg
CS51756	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	24	2.2	3.3	3.3	ug/Kg
CS51756	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.88	0.03	0.81	0.81	mg/Kg
CS51756	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.88	0.03	0.18	0.18	mg/Kg
CS51756	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	212	0.34	63	63	mg/Kg
CS51756	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	134	0.7	109	109	mg/Kg
CS51757	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	4600	270	1000	1000	ug/Kg
CS51757	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4600	270	1000	1000	ug/Kg
CS51757	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	4300	270	3900	3900	ug/Kg
CS51757	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4300	270	1000	1000	ug/Kg
CS51757	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	6400	270	5600	5600	ug/Kg
CS51757	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	6400	270	1000	1000	ug/Kg
CS51757	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	6400	270	1000	1000	ug/Kg
CS51757	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	270	800	800	ug/Kg
CS51757	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	5300	270	1000	1000	ug/Kg
CS51757	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	5300	270	1000	1000	ug/Kg
CS51757	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5300	270	1000	1000	ug/Kg
CS51757	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3000	270	500	500	ug/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51757	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3000	270	500	500	ug/Kg
CS51757	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	650	190	560	560	ug/Kg
CS51757	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	650	190	330	330	ug/Kg
CS51757	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	650	190	330	330	ug/Kg
CS51757	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	11	2.3	3.3	3.3	ug/Kg
CS51757	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	14	2.3	3.3	3.3	ug/Kg
CS51757	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	56.9	0.7	50	50	mg/kg
CS51757	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.13	0.03	0.81	0.81	mg/Kg
CS51757	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.13	0.03	0.18	0.18	mg/Kg
CS51757	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	327	0.35	63	63	mg/Kg
CS51757	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	209	0.7	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 05, 2025

SDG I.D.: GCS51748

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

ETPH Narration

AU-FID1 01/28/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51756, CS51757

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

Samples: CS51748, CS51749, CS51750, CS51757

Preceding CC 128A055 - % COD (surr) 31%L (30%)

Succeeding CC 128A069 - None.

The ETPH method allows for one discrimination check standard outlier.

Herbicide Narration

AU-ECD2 01/29/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757

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

Samples: CS51748, CS51749, CS51750, CS51751

Preceding CC 129B003A - 2,4-DB (12) 21%L (20%)

Succeeding CC 129B015 - None.

PEST Narration

AU-ECD33 01/29/25-1: CS51748, CS51750

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

Samples: CS51748

Preceding CC 129B057 - % DCBP 21%L (20%)

Succeeding CC 129B067 - % DCBP 34%L (20%), Methoxychlor 25%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 01/30/25-1: CS51756, CS51757

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

Samples: CS51756, CS51757

Preceding CC 130B004 - None.

Succeeding CC 130B018 - d-BHC 25%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 01/30/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755

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

Samples: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755

Preceding CC 130B004 - Endosulfan II 27%H (20%)

Succeeding CC 130B018 - Endosulfan I 21%H (20%), Endosulfan II 30%H (20%), Endrin aldehyde 25%H (20%)

SVOA Narration

CHEM19 01/30/25-1: CS51754, CS51755, CS51756, CS51757



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 05, 2025

SDG I.D.: GCS51748

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 0.087 (0.1)

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

The following Continuing Calibration compounds did not meet % deviation criteria: 3&4-Methylphenol (m&p-Cresol) 22%H (20%)

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

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.087 (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%.

CHEM36 01/28/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.072 (0.1), Hexachlorobenzene 0.089 (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 0.076 (0.1), Hexachlorobenzene 0.084 (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 01/30/25-1: CS51752, CS51753

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.089 (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 0.082 (0.1)

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

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

VOA Narration

CHEM03 01/28/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 38% (20%), Chloroethane 26% (20%)

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

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 24%L (20%)

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%.

CHEM03 01/29/25-1: CS51755

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 38% (20%), Chloroethane 26% (20%)

The following Initial Calibration compounds did not meet maximum RSD% 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



Analysis Comments

February 05, 2025

SDG I.D.: GCS51748

CHEM18 01/28/25-1: CS51756, CS51757

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 21% (20%)

The following Initial Calibration compounds did not meet maximum RSD% 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%.

CHEM26 01/28/25-2: CS51750

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 21% (20%)

The following Initial Calibration compounds did not meet maximum RSD% 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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Tel. (860) 645-1102 Fax (860) 645-0823



NY Temperature Narration

February 05, 2025

SDG I.D.: GCS51748

The samples in this delivery group were received at 2.0°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: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Coolant: ☒ IPK ☐ ICE ☐ No ☐ Yes

Temp: 20 Pg 1 of 2

Contact Options:

Phone: ☐
Fax: ☐
Email: ☒

Project: EAST SIDE COASTAL RESILIENCE Project P.O.: 0897

Customer: AES

Address: 42 West Avenue

Patchogue, NY 11772

Report to: AES

Invoice to: AES

QUOTE #: AE090921BA/AE061224BA

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Siden Date: 1/27/25 Analysis Request

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
B=Bulk L=Liquid

PHOENIX USE ONLY

SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
S1748	BH-116	S	1.23.25	11:30
S1749	BH-117			12:00
S1750	BH-118			12:15
S1751	BH-119			12:30
S1752	DEP-123			1:00
S1753	DEP-115A		1.24.25	8:45
S1754	DEP-115B			9:30
S1755	DEP-115C			9:45
S1756	DEP-115D *			10:10
S1757	DEP-115E			10:35

Relinquished by: Siden Accepted by: Siden

Date: 1/27/25 Time: 12:30

Comments, Special Requirements or Regulations:

*DEP-115D - no additional WM Table A parameters needed

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

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*
☐ 4 Days*
☐ 5 Days*
☐ Standard
* SURCHARGE APPLIES

NJ

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

NY

☐ TOGS GW
☐ SP-51 SOIL
☒ Unrestricted Soil
☐ 375SCO
☐ Residential Soil
☒ 375SCO
☒ Restricted Soil
☐ 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: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

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

Temp 20 Pg 2 of 2

Contact Options:

Phone: ☐
Fax: ☒
Email: ☒

empendergast@no1.com

Customer: AES

Address:

Project: EAST SIDE COASTAL RESILIENCE Project P.O.: 0897

Report to: AES

Invoice to: AES

QUOTE #: see p. 4

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification		Analysis Request	
Sampler's Signature	Date: <u>1/27/25</u>	Analysis Request	
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 B=Bulk L=Liquid		OIL=Oil	
PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled
SAMPLE #			Time Sampled
51748	BH-116	S	1.24.25 sec
51749	BH-117		p.1
51750	BH-118		
51751	BH-119		
51753	DEP-115A		
51754	DEP-115B		
51755	DEP-115C		
51756	DEP-115E		

Relinquished by:	Accepted by:	Date:	Time:
<u>[Signature]</u>	<u>[Signature]</u>	1/27/25	1230
Comments, Special Requirements or Regulations:		Data Format: ☐ Phoenix Std Report ☐ EQUIS ☒ Excel ☐ NJ Hazsite EDD ☒ PDF ☐ NY EZ EDD (ASP) ☐ GIS/Key ☐ Other	
Turnaround: ☐ 1 Day* ☐ 2 Days* ☒ 3 Days* ☐ 4 Days* ☐ 5 Days* ☐ Standard * SURCHARGE APPLIES		Data Package: ☐ NJ Reduced Deliv. * ☐ NY Enhanced (ASP B) *	
NJ ☐ Res. Criteria ☐ Non-Res. Criteria ☐ Impact to GW Soil Cleanup Criteria ☐ Impact to GW soil screen Criteria ☐ GW Criteria		PA ☐ Clean Fill Limits ☐ PA-GW ☐ Reg Fill Limits ☐ PA Soil Restricted ☐ PA Soil non-restricted	
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		State Samples Collected? <u>NY</u>	



Summit Environmental Technologies, LLC
3310 Win St.
Cuyahoga Falls, Ohio 44223
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Website: <http://www.settek.com>

January 31, 2025

Helen Geoghegan
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
TEL:
FAX:

RE: CS51748-CS51757

Dear Helen Geoghegan:

Order No.: 25011789

Summit Environmental Technologies, LLC received 9 sample(s) on 1/29/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Holly Florea
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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Case Narrative

WO#: 25011789
Date: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc.

Project: CS51748-CS51757

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Original



Summit Environmental Technologies, LLC
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Workorder Sample Summary

WO#: 25011789

31-Jan-25

CLIENT: Phoenix Environmental Laboratories, Inc.

Project: CS51748-CS51757

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25011789-001	CS51748		1/23/2025 11:30:00 AM	1/29/2025 10:10:00 AM	Solid
25011789-002	CS51749		1/23/2025 12:00:00 PM	1/29/2025 10:10:00 AM	Solid
25011789-003	CS51750		1/23/2025 12:15:00 PM	1/29/2025 10:10:00 AM	Solid
25011789-004	CS51751		1/23/2025 12:30:00 PM	1/29/2025 10:10:00 AM	Solid
25011789-005	CS51752		1/23/2025 1:00:00 PM	1/29/2025 10:10:00 AM	Solid
25011789-006	CS51753		1/24/2025 8:45:00 AM	1/29/2025 10:10:00 AM	Solid
25011789-007	CS51754		1/24/2025 9:30:00 AM	1/29/2025 10:10:00 AM	Solid
25011789-008	CS51755		1/24/2025 9:45:00 AM	1/29/2025 10:10:00 AM	Solid
25011789-009	CS51757		1/24/2025 10:35:00 AM	1/29/2025 10:10:00 AM	Solid



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Analytical Report

(consolidated)

WO#: 25011789

Date Reported: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/23/2025 11:30:00 AM
Project: CS51748-CS51757
Lab ID: 25011789-001 **Matrix:** SOLID
Client Sample ID: CS51748

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				SW9023	Analyst: KMS	
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25011789

Date Reported: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/23/2025 12:00:00 PM
Project: CS51748-CS51757
Lab ID: 25011789-002 **Matrix:** SOLID
Client Sample ID: CS51749

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				SW9023	Analyst: KMS	
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25011789

Date Reported: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/23/2025 12:15:00 PM
Project: CS51748-CS51757
Lab ID: 25011789-003 **Matrix:** SOLID
Client Sample ID: CS51750

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				SW9023	Analyst: KMS	
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25011789

Date Reported: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc. Collection Date: 1/23/2025 12:30:00 PM

Project: CS51748-CS51757

Lab ID: 25011789-004

Matrix: SOLID

Client Sample ID: CS51751

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				SW9023	Analyst: KMS	
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25011789

Date Reported: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/23/2025 1:00:00 PM
Project: CS51748-CS51757
Lab ID: 25011789-005 **Matrix:** SOLID
Client Sample ID: CS51752

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				SW9023	Analyst: KMS	
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25011789

Date Reported: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc. Collection Date: 1/24/2025 8:45:00 AM

Project: CS51748-CS51757

Lab ID: 25011789-006

Matrix: SOLID

Client Sample ID: CS51753

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				SW9023	Analyst: KMS	
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25011789

Date Reported: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/24/2025 9:30:00 AM

Project: CS51748-CS51757

Lab ID: 25011789-007

Matrix: SOLID

Client Sample ID: CS51754

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				SW9023		Analyst: KMS
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25011789

Date Reported: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/24/2025 9:45:00 AM
Project: CS51748-CS51757
Lab ID: 25011789-008 **Matrix:** SOLID
Client Sample ID: CS51755

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				SW9023	Analyst: KMS	
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 25011789

Date Reported: 1/31/2025

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/24/2025 10:35:00 AM
Project: CS51748-CS51757
Lab ID: 25011789-009 **Matrix:** SOLID
Client Sample ID: CS51757

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				SW9023	Analyst: KMS	
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 25011789
31-Jan-25

Client: Phoenix Environmental Laboratories, Inc.

Project: CS51748-CS51757

BatchID: R202249

Sample ID: MB-R202249	SampType: MBLK	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 202249						
Client ID: BatchQC	Batch ID: R202249	TestNo: SW9023		Analysis Date: 1/30/2025	SeqNo: 5431734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	ND	40.0									

Sample ID: LCS-R202249	SampType: LCS	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 202249						
Client ID: BatchQC	Batch ID: R202249	TestNo: SW9023		Analysis Date: 1/30/2025	SeqNo: 5431735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	44.0	40.0	50.00	0	88.0	72	125				

Sample ID: 25011789-007AMS	SampType: MS	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 202249						
Client ID: CS51754	Batch ID: R202249	TestNo: SW9023		Analysis Date: 1/30/2025	SeqNo: 5431749						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	490	40.0	500.0	0	98.0	78	136				

Sample ID: 25011789-007AMSD	SampType: MSD	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 202249						
Client ID: CS51754	Batch ID: R202249	TestNo: SW9023		Analysis Date: 1/30/2025	SeqNo: 5431750						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	500	40.0	500.0	0	100	78	136	490.0	2.02	20	

Qualifiers: H Holding times for preparation or analysis exceeded
PL Permit Limit

M Manual Integration used to determine area response
RL Reporting Detection Limit

ND Not Detected
W Sample container temperature is out of limit as spec



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QC SUMMARY REPORT

WO#: 25011789
31-Jan-25

Client: Phoenix Environmental Laboratories, Inc.
Project: CS51748-CS51757

BatchID: R202249

Sample ID: 25011789-007AMSD	SampType: MSD	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 202249						
Client ID: CS51754	Batch ID: R202249	TestNo: SW9023		Analysis Date: 1/30/2025	SeqNo: 5431750						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: MB-R202249	SampType: MBLK	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 202249						
Client ID: BatchQC	Batch ID: R202249	TestNo: SW9023		Analysis Date: 1/30/2025	SeqNo: 5431754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Extractable Organic Halides ND 40.0

Qualifiers: H Holding times for preparation or analysis exceeded
PL Permit Limit

M Manual Integration used to determine area response
RL Reporting Detection Limit

ND Not Detected
W Sample container temperature is out of limit as spec

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Original



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DATES REPORT

WO#: 25011789
31-Jan-25

Client: Phoenix Environmental Laboratories, Inc.
Project: CS51748-CS51757

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25011789-001A	CS51748	1/23/2025 11:30:00 AM	Solid	Extractable Organic Halides (EOX) (9)			1/30/2025 8:00:00 AM
25011789-002A	CS51749	1/23/2025 12:00:00 PM		Extractable Organic Halides (EOX) (9)			1/30/2025 8:00:00 AM
25011789-003A	CS51750	1/23/2025 12:15:00 PM		Extractable Organic Halides (EOX) (9)			1/30/2025 8:00:00 AM
25011789-004A	CS51751	1/23/2025 12:30:00 PM		Extractable Organic Halides (EOX) (9)			1/30/2025 8:00:00 AM
25011789-005A	CS51752	1/23/2025 1:00:00 PM		Extractable Organic Halides (EOX) (9)			1/30/2025 8:00:00 AM
25011789-006A	CS51753	1/24/2025 8:45:00 AM		Extractable Organic Halides (EOX) (9)			1/30/2025 8:00:00 AM
25011789-007A	CS51754	1/24/2025 9:30:00 AM		Extractable Organic Halides (EOX) (9)			1/30/2025 8:00:00 AM
25011789-008A	CS51755	1/24/2025 9:45:00 AM		Extractable Organic Halides (EOX) (9)			1/30/2025 8:00:00 AM
25011789-009A	CS51757	1/24/2025 10:35:00 AM		Extractable Organic Halides (EOX) (9)			1/30/2025 8:00:00 AM

Original



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Accreditation Program Analytes Report

WO#: 25011789
31-Jan-25

Client: Phoenix Environmental Laboratories, Inc.

State: NY

Project: CS51748-CS51757

Program Name: NY_DW_WW_S

Test Name	Matrix	Analyte	Status
Extractable Organic Halides (EOX) (9023)	Solid	Extractable Organic Halides	A

AL	U	Unavailable	LA-NELA	N	Not Accredited	CT	A	Accredited	Original #1
IL-NELAI	A	Accredited	HI-DW	U	Unavailable	IA	N	Not Accredited	
IL-NELAF	A	Accredited	IN_DW	U	Unavailable	S - NELA	A	Accredited	
KY_UST	A	Accredited	W(RADS)	N	Not Accredited	_DW_WW	A	Accredited	
MD-DW	U	Unavailable	I_DW_RA	U	Unavailable	_WW_S	A	Accredited	

Coolant: ☐ IPK ☐ ICE ☐ No ☐ No

Temp °C Pg of

CHAIN OF CUSTODY RECORD

Page 1 of 1

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

Client Services (860) 645-8726

Contact Options:
☐ Fax: 860-645-0823
☐ Phone: 800-827-5426
☐ Email: HelenG@PhoenixLabs.com

Project P.O.: GCS51748

Project #: GCS51748
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

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

Analysis Request

Extractable Organic Halogens SW9023

2501748

Phoenix Sample ID	Sample Comment	Sample Matrix	Date Sampled	Time Sampled
CS51748		SOIL	1/23/2025	11:30 AM
CS51749		SOIL	1/23/2025	12:00 PM
CS51750		SOIL	1/23/2025	12:15 PM
CS51751		SOIL	1/23/2025	12:30 PM
CS51752		SOIL	1/23/2025	1:00 PM
CS51753		SOIL	1/24/2025	8:45 AM
CS51754		SOIL	1/24/2025	9:30 AM
CS51755		SOIL	1/24/2025	9:45 AM
CS51757		SOIL	1/24/2025	10:35 AM

Relinquished by: Emily A

Accepted by: UPS cooler

Date: 1/23/25

Time: 11:00

Turnaround: 1 Day 2 Days 3 Days 5 Days 10 Days Standard Other

Report Type: Standard PDF Full Data Package NJ Reduced Deliverable NJ Full Deliverable NY ASP B

EDD Format: Excel GIS/Key EDD NJ Hazsite EDD NY EZ EDD (ASP) Other

State Criteria: NY: 375 Commercial NY: 375 Residential Restricted NY: 375 Unrestricted

Comments, Special Requirements or Regulations:

3.8 - 0.0 = 3.8

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum of 10% of disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

What State were samples collected? NY



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Sample Log-In Check List

Client Name: PHO-CT-06040

Work Order Number: 25011789

RcptNo: 1

Logged by: Christina N. Gemma 1/29/2025 10:10:00 AM
Completed By: Christina N. Gemma 1/29/2025 11:58:07 AM
Reviewed By: Holly Florea 1/29/2025 4:38:15 PM

C. Gemma
C. Gemma
Holly Florea

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
Not required
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good	Not Present			