Field Sampling Summary Report

COMBINED SEWER AND WATER MAIN REPLACEMENT
PRESIDENT STREET BETWEEN KINGSTON AND ALBANY AVENUES, ETC.
BROOKLYN, NY

NYCDDC PROJECT # SEK002376

Prepared for:

New York City Department of Design and Construction
Office of Environmental and Hazmat Services
30-30 Thomson Avenue, 3rd Floor
Long Island City, New York 11101

On behalf of:

Maspeth Supply Company LLC
55-14 48th Street
Maspeth, NY 11378

Prepared by:

AMERICAN ENVIRONMENTAL SOLUTIONS
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AES Project No. 0947

MAY 1st, 2024

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1.0 INTRODUCTION

American Environmental Solutions, Inc. (AES) of Patchogue, New York, has been contracted by Maspeth Supply Company LLC (MSC) of Maspeth, 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) Combined Sewer and Water Main Replacement Project in President Street between Kingston and Albany Avenues, Etc. (Project No. SEK002376) located in Brooklyn, New York. This FSSR documents field sampling activities performed by AES on April 15th, 2024.

1.1 Project Description

The Combined Sewers and Water Main Replacement in President Street project is located in the Crown Heights section of Brooklyn, New York. The work area consists of roadways and street right of ways along President Street from Kingston Avenue to Albany Avenue and along Kingston Avenue between President Street and Eastern Parkway. The site is located in a primarily residential neighborhood. The work location is shown on Figure 1.

Work tasks to be conducted include site excavation, combined sewer and water main replacement and roadway reconstruction, sidewalks and curb installation and traffic lighting. Approximately 7,800 cubic yards of material total are anticipated to be excavated during the course of work. In accordance with the NYCDDC approved Field Sampling Plan, soil to be excavated during the course of work was sampled and analyzed in order to characterize the material for disposal purposes.

2.0 FIELD ACTIVITIES

AES performed in-situ soil sampling at the site on April 15th, 2024. Seven (7) soil borings were advanced in the work areas to depths of 5 or 7 feet below grade surface (ftbg), the proposed depth of site excavation at each location. Each sample consisted of five (5) grab samples composited from various intervals along the depth of excavation at each sampling location and one VOC grab sample. Each sample collected represented approximately 500 cubic yards of soil to be excavated. Soil sampling locations are shown on Figure 1.

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 boring 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)
- 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);
- Target Analyte List Metals (TAL) (Method 6010);
- Target Compound List (TCL) VOCS (Method 8260) and SVOCS (Method 8270)

Laboratory analysis was evaluated by comparing results to NYSDEC Part 375 Commercial SCOs to determine if it is suitable for reuse and Part 371 to determine if material will be characterized as hazardous.

2.2 Analytical Results

Analytical laboratory results indicated the seven samples collected contained metals. One sample (SB10) collected the SVOC fluoranthene. One sample (SB10) contained a concentration of lead exceeding the RCRA Hazardous Waste Characteristic Regulatory Level. There were no VOCs, PCBs, pesticides or Total Petroleum Hydrocarbons (TPH) detected in the samples. Compound detections compared to applicable criteria are shown on Tables 1 and 2.

Comments:

- A number of sampling locations (SB9, SB11, SB12, SB13, SB14, SB15) contained compounds in concentrations falling below NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (CUSCOs). Material containing compound concentrations falling below CUSCOs may be suitable for reuse as backfill on-site as long as visual and olfactory evidence of contamination are not present.

- TCLP Lead exceeded the RCRA Hazardous Waste Characteristic Regulatory Level of 5 milligrams per liter (mg/L) in soil sample SB10 at a concentration of 21.6 mg/L. TCLP results are summarized in Table 2. Additionally, total lead was detected in SB10 in a concentration of 2720 parts per million (ppm) which exceeds CUSCOs.

3.0 CONCLUSIONS AND RECOMMENDATIONS

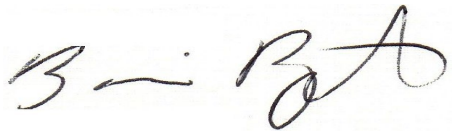
Based on review and evaluation of analytical data and field screening, the following findings, conclusions and recommendations are presented:

- Laboratory analytical results indicated soil sample SB10 exhibited evidence of hazardous waste characteristics for toxicity as discussed above and identified in Table 2. The material excavated from location SB10 should be properly disposed of at a USEPA approved RCRA-Part B TSDF facility. TCLP lead concentrations detected in the soil sample may be attributed to the presence of historic fill material. The approximate quantity of hazardous material to be generated at location SB10 is up to 500 cubic yards. Further delineation sampling will be performed to localize the hazardous area at location SB10.

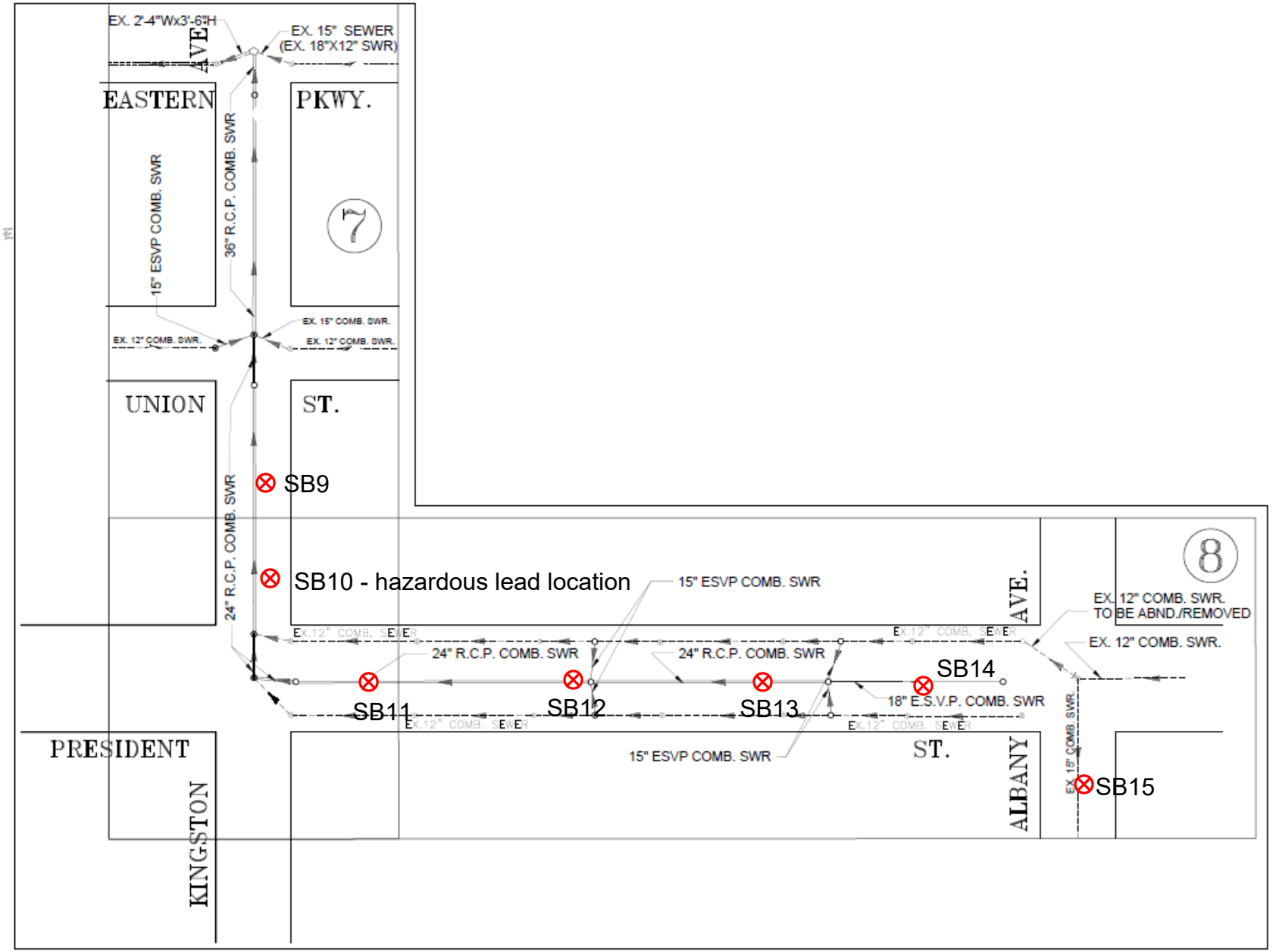
- The six other samples collected on April 15th, 2024 (SB9, SB11, SB12, SB13, SB14 and SB15) contained compound concentrations in concentrations falling below CUSCOs. In accordance with NYCDDC specifications, soil meeting CUSCOs may be suitable for use as backfill on-site. Non-native material such as historic fill or petroleum impacted soil would not be suitable for use as backfill and must be disposed off-site 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



KEY MAP
SCALE: N.T.S.

⊗Soil Boring Location, 4/15/2024

Material Handling Plan	FIGURE 1 Location Map
American Environmental Solutions, Inc. AES Proj. #0947	NYCDDC SEK002376 Combined Sewers and Water Main Replacement, President Street Brooklyn, NY Nts not to scale

TABLES

COMBINED SEWER AND WATER MAIN REPLACEMENT IN PRESIDENT STREET, BROOKLYN
NYCDDC PROJECT SEK002376
MASPETH SUPPLY COMPANY LLC
TABLE 1: SUMMARY OF SOIL ANALYSIS - SAMPLES COLLECTED 4/15/2024

Parameter	Compounds Detected	Unit	NYSDEC Part 375 Commercial Use Soil Cleanup Objectives	SB9	SB10	SB11	SB12	SB13	SB14	SB15
PCBs	None detected	ppm	-	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides	None detected	ppm	92	ND	ND	ND	ND	ND	ND	ND
TAL Metals	Aluminum	ppm	NS	9,140	11,400	4,450	8,070	5,810	5,340	6,590
	Antimony	ppm	NS	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ppm	16	3.14	1.73	1.68	2.83	2.57	2.26	2.03
	Barium	ppm	400	59.4	37.1	40.8	64.2	41.8	36.3	36
	Beryllium	ppm	590	.56	.41	.3	.37	.42	.35	.36
	Cadmium	ppm	9.3	ND	ND	ND	ND	ND	ND	ND
	Calcium	ppm	NS	1920	1750	1560	8050	896	1180	1290
	Chromium	ppm	1500	24.8	16.3	14	15.9	13.7	13.3	12.7
	Hexvalent Chromium	ppm	400	ND	ND	ND	ND	ND	ND	ND
	Trivalent Chromium	ppm	1500	24.8	16.3	14	15.9	13.7	13.3	12.7
	Cobalt	ppm	NS	10.9	2.62	5.57	9.02	18.4	5.27	5.78
	Copper	ppm	270	24	20.6	9.7	91	15	16.3	12.2
	Iron	ppm	NS	24,000	8330	14,100	25,500	17,800	19,800	13,300
	Lead	ppm	1000	9.09	**2720**	5.67	57.3	11.6	5.92	10
	Manganese	ppm	10,000	366	199	351	423	564	304	296
	Magnesium	ppm	NS	3100	1330	1850	3080	16640	1620	1750
	Mercury	ppm	2.8	ND	.11	ND	ND	ND	ND	.04
	Nickel	ppm	310	20.7	11.1	1.3	16.9	11.9	8.98	10.9
	Silver	ppm	1500	ND	ND	ND	ND	ND	ND	ND
	Sodium	ppm	NS	963	910	705	709	237	320	236
	Potassium	ppm	NS	2170	402	1190	1480	909	1210	752
	Vanadium	ppm	NS	34.5	12.7	21.1	34.4	25.8	23.6	22
	Zinc	ppm	10,000	47.6	247	22.8	58	22	26.2	23.6
SVOCs	Fluoranthene	ppm	500	ND	.29	ND	ND	ND	ND	ND
Cyanide	Cyanide	ppm	27	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds	None detected	ppm	ND	ND	ND	ND	ND	ND	ND	ND
TPH	DRO	ppm	NS	ND	ND	ND	ND	ND	ND	ND
	GRO	ppm	NS	ND	ND	ND	ND	ND	ND	ND

Notes:

ND Not detected
NS No regulatory criteria available
Yellow highlighted concentrations exceed NYSDEC Part 375 Commerical Soil Cleanup Objeictives

COMBINED SEWER AND WATER MAIN REPLACEMENT IN PRESIDENT STREET, BROOKLYN
NYCDDC PROJECT SEK002376
MASPETH SUPPLY COMPANY LLC
TABLE 2: SUMMARY OF TCLP & RCRA ANALYSIS - SAMPLES COLLECTED 4/15/24

Parameter	Compounds Detected	Unit	Regulatory Criteria	SB9	SB10	SB11	SB12	SB13	SB14	SB15
RCRA Characteristics	pH	pH units	<2 or >12.5	7.44	5.99	9.53	8.14	8.49	8.3	9.03
	Flashpoint	° 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
	Reactivity - Cyanide	ppm	_	ND	ND	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm		ND	ND	ND	ND	ND	ND	ND
TOXICITY		**Unit**	**USEPA Toxicity Characteristic Regulatory Criteria**	**SB9**	**SB10**	**SB11**	**SB12**	**SB13**	**SB14**	**SB15**
TCLP Metals	Barium	mg/L	100	0.36	0.28	0.43	0.55	0.32	0.38	0.44
	Lead	mg/L	5	0.14	**21.6**	ND	ND	ND	ND	ND
TCLP VOCs	None Detected	mg/L	0.7	ND	ND	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected	_	_	ND	ND	ND	ND	ND	ND	ND
TCLP Pests/Herbicides	None Detected	_	_	ND	ND	ND	ND	ND	ND	ND

Notes:
NS No regulatory criteria available
ND Not detected
Yellow highlighted results exceed regulatory criteria

42 West Avenue, Patchogue, NY 11772
(631) 475-0020/(631) 475-0025 fax

APPENDIX A

LABORATORY ANALYSIS

Monday, April 29, 2024

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

Project ID: **SEK002376 - PRESIDENT ST.**
SDG ID: **GCQ52795**
Sample ID#s: CQ52795 - CQ52801

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

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

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

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

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

Sincerely yours,

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

April 29, 2024

SDG I.D.: GCQ52795

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

April 29, 2024

SDG I.D.: GCQ52795

Project ID: SEK002376 - PRESIDENT ST.

Client Id	Lab Id	Matrix
SB9	CQ52795	SOIL
SB10	CQ52796	SOIL
SB11	CQ52797	SOIL
SB12	CQ52798	SOIL
SB13	CQ52799	SOIL
SB14	CQ52800	SOIL
SB15	CQ52801	SOIL

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 29, 2024

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/15/24	12:00
Location Code:	AES-INC	Received by:	SR1	04/16/24	16:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0947				

Laboratory Data

SDG ID: GCQ52795
Phoenix ID: CQ52795

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB9

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Aluminum	9140	51	mg/Kg	10	04/18/24	TH	SW6010D
Arsenic	3.14	0.67	mg/Kg	1	04/18/24	CPP	SW6010D
Barium	59.4	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Beryllium	0.56	0.27	mg/Kg	1	04/18/24	CPP	SW6010D
Calcium	1920	5.1	mg/Kg	1	04/18/24	CPP	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Cobalt	10.9	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Chromium	24.8	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Copper	24.0	0.7	mg/kg	1	04/18/24	CPP	SW6010D
Iron	24000	51	mg/Kg	10	04/18/24	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/17/24	ZT	SW7471B
Potassium	2170	51	mg/Kg	10	04/18/24	CPP	SW6010D
Magnesium	3100	5.1	mg/Kg	1	04/18/24	CPP	SW6010D
Manganese	366	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Sodium	963	5.1	mg/Kg	1	04/18/24	CPP	SW6010D
Nickel	20.7	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Lead	9.09	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	04/18/24	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	04/18/24	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Barium	0.36	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	04/17/24	GW	SW846 1311/7470
TCLP Lead	0.14	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010D

Ver 1

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52795
Client ID: SB9

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.0	3.0	mg/Kg	1	04/18/24	CPP	SW6010D	
TCLP Metals Digestion	Completed				04/17/24	HL/HL	SW3010A	
Vanadium	34.5	0.34	mg/Kg	1	04/18/24	CPP	SW6010D	
Zinc	47.6	0.7	mg/Kg	1	04/18/24	CPP	SW6010D	
Percent Solid	95		%		04/16/24	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	04/16/24	MW	SW846-Corr	1
Flash Point	>200	200	Degree F	1	04/19/24	G	SW1010B	
Chromium, Hexavalent	< 0.40	0.40	mg/Kg	1	04/19/24	BJA	SW7196A	
Ignitability	Passed	140	degree F	1	04/19/24	G	SW846-Ignit	1
pH at 25C - Soil	7.44	1.00	pH Units	1	04/16/24 23:35	MW	SW846 9045D	1
Reactivity Cyanide	< 5	5	mg/Kg	1	04/19/24	EG/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	04/22/24	EG/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	04/22/24	EG/GD	SW846-React	1
Redox Potential	249		mV	1	04/16/24	MW	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.53	0.53	mg/Kg	1	04/23/24	C/D/G	SW9012B	
Mercury Digestion	Completed				04/17/24	MQ/HL	SW7471B	
Extraction of NY ETPH	Completed				04/17/24	C/A	SW3546	
Soil Extraction for PCB	Completed				04/20/24	H/U	SW3546	
Soil Extraction for Pesticides	Completed				04/20/24	H/U	SW3546	
Soil Extraction for SVOA	Completed				04/19/24	C/A	SW3546	
TCLP Digestion Mercury	Completed				04/17/24	HL/HL	SW7470A	
TCLP Herbicides Extraction	Completed				04/19/24	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				04/16/24	HL	SW1311	
TCLP Extraction for Organics	Completed				04/16/24	HL	SW1311	
TCLP Pesticides Extraction	Completed				04/23/24	LB1/LB1	SW3510C	
TCLP Semi-Volatile Extraction	Completed				04/22/24	F/F	SW3510C	
TCLP Extraction Volatiles	Completed				04/17/24	AL	SW1311	
Total Metals Digest	Completed				04/17/24	J/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	6.2	mg/Kg	50	04/17/24	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	90		%	50	04/17/24	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	69	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1221	ND	69	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1232	ND	69	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1242	ND	69	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1248	ND	69	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1254	ND	69	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1260	ND	69	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1262	ND	69	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1268	ND	69	ug/Kg	2	04/22/24	SC	SW8082A	
QA/QC Surrogates								
% DCBP	78		%	2	04/22/24	SC	30 - 150 %	
% DCBP (Confirmation)	80		%	2	04/22/24	SC	30 - 150 %	
% TCMX	73		%	2	04/22/24	SC	30 - 150 %	
% TCMX (Confirmation)	72		%	2	04/22/24	SC	30 - 150 %	

Ver 1

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB9

Phoenix I.D.: CQ52795

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Pesticides - Soil								
4,4' -DDD	ND	3.0	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDE	ND	2.1	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDT	ND	3.0	ug/Kg	2	04/23/24	AW	SW8081B	
a-BHC	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
a-Chlordane	ND	3.4	ug/Kg	2	04/23/24	AW	SW8081B	
Aldrin	ND	3.4	ug/Kg	2	04/23/24	AW	SW8081B	
b-BHC	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
Chlordane	ND	34	ug/Kg	2	04/23/24	AW	SW8081B	
d-BHC	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
Dieldrin	ND	3.4	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan I	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan II	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan sulfate	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin aldehyde	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin ketone	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
g-BHC	ND	1.4	ug/Kg	2	04/23/24	AW	SW8081B	
g-Chlordane	ND	3.4	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor epoxide	ND	6.9	ug/Kg	2	04/23/24	AW	SW8081B	
Methoxychlor	ND	34	ug/Kg	2	04/23/24	AW	SW8081B	
Toxaphene	ND	140	ug/Kg	2	04/23/24	AW	SW8081B	
QA/QC Surrogates								
% DCBP	58		%	2	04/23/24	AW	30 - 150 %	
% DCBP (Confirmation)	54		%	2	04/23/24	AW	30 - 150 %	
% TCMX	65		%	2	04/23/24	AW	30 - 150 %	
% TCMX (Confirmation)	65		%	2	04/23/24	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	04/23/24	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	04/23/24	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	72		%	10	04/23/24	JRB	30 - 150 %	
% DCAA (Confirmation)	67		%	10	04/23/24	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	04/26/24	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	04/26/24	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	67		%	10	04/26/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	62		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	77		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	74		%	10	04/26/24	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	260	mg/Kg	5	04/19/24	JRB	SW-846 8015
QA/QC Surrogates							
% COD (surr)	57		%	5	04/19/24	JRB	50 - 150 %
% Terphenyl (surr)	75		%	5	04/19/24	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromoethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloropropane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
2-Hexanone	ND	22	ug/kg	1	04/17/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	22	ug/kg	1	04/17/24	JLI	SW8260D
Acetone	ND	43	ug/kg	1	04/17/24	JLI	SW8260D
Benzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Bromochloromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Bromodichloromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Bromoform	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Bromomethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Carbon Disulfide	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Carbon tetrachloride	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Chlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Chloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Chloroform	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Chloromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Cyclohexane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Dibromochloromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Dichlorodifluoromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Ethylbenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Isopropylbenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
m&p-Xylene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Methyl ethyl ketone	ND	26	ug/kg	1	04/17/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Methylacetate	ND	3.5	ug/kg	1	04/17/24	JLI	SW8260D
Methylcyclohexane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Methylene chloride	ND	22	ug/kg	1	04/17/24	JLI	SW8260D
o-Xylene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Styrene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Tetrachloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Toluene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Total Xylenes	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Trichloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorofluoromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Vinyl chloride	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	97		%	1	04/17/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	65	ug/kg	1	04/17/24	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
1,3-Dichloropropane	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
n-Butylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
n-Propylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
p-Isopropyltoluene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
sec-Butylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
tert-Butylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	97		%	1	04/17/24	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2-Dichloroethane	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
1,4-Dichlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Benzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Carbon tetrachloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chloroform	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Methyl ethyl ketone	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Tetrachloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Trichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Vinyl chloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	04/18/24	HM	70 - 130 %	
% Bromofluorobenzene (10x)	98		%	10	04/18/24	HM	70 - 130 %	
% Dibromofluoromethane (10x)	101		%	10	04/18/24	HM	70 - 130 %	
% Toluene-d8 (10x)	97		%	10	04/18/24	HM	70 - 130 %	
Volatile Library Search	Completed				04/17/24	JLI		
Semivolatiles								
1,1-Biphenyl	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2,4-Dichlorophenol	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2,4-Dimethylphenol	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2,4-Dinitrophenol	ND	550	ug/Kg	1	04/20/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2-Chloronaphthalene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2-Chlorophenol	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2-Methylnaphthalene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
2-Nitroaniline	ND	550	ug/Kg	1	04/20/24	MR	SW8270E	
2-Nitrophenol	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	04/20/24	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	410	ug/Kg	1	04/20/24	MR	SW8270E	
3-Nitroaniline	ND	550	ug/Kg	1	04/20/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	04/20/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	04/20/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
4-Chloroaniline	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
4-Nitroaniline	ND	550	ug/Kg	1	04/20/24	MR	SW8270E	
4-Nitrophenol	ND	1000	ug/Kg	1	04/20/24	MR	SW8270E	
Acenaphthene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
Acenaphthylene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
Acetophenone	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	
Anthracene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Atrazine	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Benz(a)anthracene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Benzaldehyde	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Benzo(a)pyrene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Benzo(b)fluoranthene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Benzo(ghi)perylene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Benzo(k)fluoranthene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Benzyl butyl phthalate	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	04/20/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Caprolactam	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Carbazole	ND	340	ug/Kg	1	04/20/24	MR	SW8270E
Chrysene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	170	ug/Kg	1	04/20/24	MR	SW8270E
Dibenzofuran	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Diethyl phthalate	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Dimethylphthalate	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Di-n-butylphthalate	ND	690	ug/Kg	1	04/20/24	MR	SW8270E
Di-n-octylphthalate	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Fluoranthene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Fluorene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Hexachlorobenzene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Hexachlorobutadiene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Hexachloroethane	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Isophorone	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Naphthalene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Nitrobenzene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
N-Nitrosodimethylamine	ND	340	ug/Kg	1	04/20/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	170	ug/Kg	1	04/20/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	340	ug/Kg	1	04/20/24	MR	SW8270E
Pentachlorophenol	ND	340	ug/Kg	1	04/20/24	MR	SW8270E
Phenanthrene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Phenol	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
Pyrene	ND	240	ug/Kg	1	04/20/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	78		%	1	04/20/24	MR	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	04/20/24	MR	30 - 130 %
% 2-Fluorophenol	71		%	1	04/20/24	MR	30 - 130 %
% Nitrobenzene-d5	69		%	1	04/20/24	MR	30 - 130 %
% Phenol-d5	70		%	1	04/20/24	MR	30 - 130 %
% Terphenyl-d14	75		%	1	04/20/24	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylphenol (o-cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	109		%	1	04/23/24	MR	15 - 110 %
% 2-Fluorobiphenyl	87		%	1	04/23/24	MR	30 - 130 %
% 2-Fluorophenol	74		%	1	04/23/24	MR	15 - 110 %
% Nitrobenzene-d5	92		%	1	04/23/24	MR	30 - 130 %
% Phenol-d5	68		%	1	04/23/24	MR	15 - 110 %
% Terphenyl-d14	97		%	1	04/23/24	MR	30 - 130 %
Semivolatile Library Search	Completed				04/22/24	MR	

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

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

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

Comments:

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

Hexavalent Chromium:
This sample is in a reducing state.

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
April 29, 2024
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 29, 2024

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/15/24	11:10
Location Code:	AES-INC	Received by:	SR1	04/16/24	16:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0947				

Laboratory Data

SDG ID: GCQ52795
Phoenix ID: CQ52796

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/18/24	CPP	SW6010D
Aluminum	11400	58	mg/Kg	10	04/18/24	TH	SW6010D
Arsenic	1.73	0.77	mg/Kg	1	04/18/24	CPP	SW6010D
Barium	37.1	0.39	mg/Kg	1	04/18/24	CPP	SW6010D
Beryllium	0.41	0.31	mg/Kg	1	04/18/24	CPP	SW6010D
Calcium	1750	5.8	mg/Kg	1	04/18/24	CPP	SW6010D
Cadmium	< 0.39	0.39	mg/Kg	1	04/18/24	CPP	SW6010D
Cobalt	2.62	0.39	mg/Kg	1	04/18/24	CPP	SW6010D
Chromium	16.3	0.39	mg/Kg	1	04/18/24	CPP	SW6010D
Copper	20.6	0.8	mg/kg	1	04/18/24	CPP	SW6010D
Iron	8330	5.8	mg/Kg	1	04/18/24	CPP	SW6010D
Mercury	0.11	0.03	mg/Kg	2	04/17/24	ZT	SW7471B
Potassium	402	58	mg/Kg	10	04/18/24	CPP	SW6010D
Magnesium	1330	5.8	mg/Kg	1	04/18/24	CPP	SW6010D
Manganese	199	0.39	mg/Kg	1	04/18/24	CPP	SW6010D
Sodium	910	5.8	mg/Kg	1	04/18/24	CPP	SW6010D
Nickel	11.1	0.39	mg/Kg	1	04/18/24	CPP	SW6010D
Lead	2720	0.39	mg/Kg	1	04/18/24	CPP	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	04/18/24	CPP	SW6010D
Selenium	< 2.0	2.0	mg/Kg	1	04/18/24	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Barium	0.28	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	04/17/24	GW	SW846 1311/7470
TCLP Lead	21.6	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010D

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.5	3.5	mg/Kg	1	04/18/24	CPP	SW6010D	
TCLP Metals Digestion	Completed				04/17/24	HL/HL	SW3010A	
Vanadium	12.7	0.39	mg/Kg	1	04/18/24	CPP	SW6010D	
Zinc	247	0.8	mg/Kg	1	04/18/24	CPP	SW6010D	
Percent Solid	78		%		04/16/24	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	04/16/24	MW	SW846-Corr	1
Flash Point	>200	200	Degree F	1	04/19/24	G	SW1010B	
Chromium, Hexavalent	< 0.50	0.50	mg/Kg	1	04/19/24	BJA	SW7196A	
Ignitability	Passed	140	degree F	1	04/19/24	G	SW846-Ignit	1
pH at 25C - Soil	5.99	1.00	pH Units	1	04/16/24 23:35	MW	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	04/19/24	EG/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	04/22/24	EG/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	04/22/24	EG/GD	SW846-React	1
Redox Potential	349		mV	1	04/16/24	MW	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.64	0.64	mg/Kg	1	04/23/24	C/D/G	SW9012B	
Mercury Digestion	Completed				04/17/24	MQ/HL	SW7471B	
Extraction of NY ETPH	Completed				04/17/24	C/A	SW3546	
Soil Extraction for PCB	Completed				04/20/24	H/U	SW3546	
Soil Extraction for Pesticides	Completed				04/20/24	H/U	SW3546	
Soil Extraction for SVOA	Completed				04/19/24	C/A	SW3546	
TCLP Digestion Mercury	Completed				04/17/24	HL/HL	SW7470A	
TCLP Herbicides Extraction	Completed				04/19/24	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				04/16/24	HL	SW1311	
TCLP Extraction for Organics	Completed				04/16/24	HL	SW1311	
TCLP Pesticides Extraction	Completed				04/23/24	LB1/LB1	SW3510C	
TCLP Semi-Volatile Extraction	Completed				04/22/24	F/F	SW3510C	
TCLP Extraction Volatiles	Completed				04/17/24	AL	SW1311	
Total Metals Digest	Completed				04/17/24	J/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	10	mg/Kg	50	04/17/24	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	92		%	50	04/17/24	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	85	ug/Kg	2	04/23/24	SC	SW8082A	
PCB-1221	ND	85	ug/Kg	2	04/23/24	SC	SW8082A	
PCB-1232	ND	85	ug/Kg	2	04/23/24	SC	SW8082A	
PCB-1242	ND	85	ug/Kg	2	04/23/24	SC	SW8082A	
PCB-1248	ND	85	ug/Kg	2	04/23/24	SC	SW8082A	
PCB-1254	ND	85	ug/Kg	2	04/23/24	SC	SW8082A	
PCB-1260	ND	85	ug/Kg	2	04/23/24	SC	SW8082A	
PCB-1262	ND	85	ug/Kg	2	04/23/24	SC	SW8082A	
PCB-1268	ND	85	ug/Kg	2	04/23/24	SC	SW8082A	
QA/QC Surrogates								
% DCBP	65		%	2	04/23/24	SC	30 - 150 %	
% DCBP (Confirmation)	67		%	2	04/23/24	SC	30 - 150 %	
% TCMX	68		%	2	04/23/24	SC	30 - 150 %	
% TCMX (Confirmation)	67		%	2	04/23/24	SC	30 - 150 %	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Pesticides - Soil								
4,4' -DDD	ND	2.6	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDE	ND	2.6	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDT	ND	2.6	ug/Kg	2	04/23/24	AW	SW8081B	
a-BHC	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
a-Chlordane	ND	4.3	ug/Kg	2	04/23/24	AW	SW8081B	
Aldrin	ND	4.3	ug/Kg	2	04/23/24	AW	SW8081B	
b-BHC	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
Chlordane	ND	43	ug/Kg	2	04/23/24	AW	SW8081B	
d-BHC	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
Dieldrin	ND	4.3	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan I	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan II	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan sulfate	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin aldehyde	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin ketone	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
g-BHC	ND	1.7	ug/Kg	2	04/23/24	AW	SW8081B	
g-Chlordane	ND	4.3	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor epoxide	ND	8.5	ug/Kg	2	04/23/24	AW	SW8081B	
Methoxychlor	ND	43	ug/Kg	2	04/23/24	AW	SW8081B	
Toxaphene	ND	170	ug/Kg	2	04/23/24	AW	SW8081B	
QA/QC Surrogates								
% DCBP	45		%	2	04/23/24	AW	30 - 150 %	
% DCBP (Confirmation)	72		%	2	04/23/24	AW	30 - 150 %	
% TCMX	57		%	2	04/23/24	AW	30 - 150 %	
% TCMX (Confirmation)	59		%	2	04/23/24	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	04/23/24	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	04/23/24	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	78		%	10	04/23/24	JRB	30 - 150 %	
% DCAA (Confirmation)	71		%	10	04/23/24	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	04/26/24	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	

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Endosulfan Sulfate	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	04/26/24	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	95		%	10	04/26/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	87		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	85		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	79		%	10	04/26/24	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	63	mg/Kg	1	04/18/24	JRB	SW-846 8015
QA/QC Surrogates							
% COD (surr)	82		%	1	04/18/24	JRB	50 - 150 %
% Terphenyl (surr)	88		%	1	04/18/24	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromoethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloroethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloropropane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
2-Hexanone	ND	43	ug/kg	1	04/17/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	43	ug/kg	1	04/17/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	04/17/24	JLI	SW8260D
Benzene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Bromochloromethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Bromodichloromethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Bromoform	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Bromomethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Carbon Disulfide	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Carbon tetrachloride	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Chlorobenzene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Chloroethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Chloroform	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Chloromethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Cyclohexane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Dibromochloromethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Dichlorodifluoromethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Ethylbenzene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Isopropylbenzene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
m&p-Xylene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Methyl ethyl ketone	ND	52	ug/kg	1	04/17/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	17	ug/kg	1	04/17/24	JLI	SW8260D
Methylacetate	ND	6.9	ug/kg	1	04/17/24	JLI	SW8260D
Methylcyclohexane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Methylene chloride	ND	43	ug/kg	1	04/17/24	JLI	SW8260D
o-Xylene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Styrene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Tetrachloroethene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Toluene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Total Xylenes	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Trichloroethene	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorofluoromethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Vinyl chloride	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/17/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	100	ug/kg	1	04/17/24	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	8.6	ug/Kg	1	04/17/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	8.6	ug/Kg	1	04/17/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	8.6	ug/Kg	1	04/17/24	JLI	SW8260D
1,3-Dichloropropane	ND	8.6	ug/Kg	1	04/17/24	JLI	SW8260D
n-Butylbenzene	ND	8.6	ug/Kg	1	04/17/24	JLI	SW8260D
n-Propylbenzene	ND	8.6	ug/Kg	1	04/17/24	JLI	SW8260D
p-Isopropyltoluene	ND	8.6	ug/Kg	1	04/17/24	JLI	SW8260D
sec-Butylbenzene	ND	8.6	ug/Kg	1	04/17/24	JLI	SW8260D
tert-Butylbenzene	ND	8.6	ug/Kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/17/24	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260

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1,2-Dichloroethane	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
1,4-Dichlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Benzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Carbon tetrachloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chloroform	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Methyl ethyl ketone	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Tetrachloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Trichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Vinyl chloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	04/18/24	HM	70 - 130 %	
% Bromofluorobenzene (10x)	97		%	10	04/18/24	HM	70 - 130 %	
% Dibromofluoromethane (10x)	99		%	10	04/18/24	HM	70 - 130 %	
% Toluene-d8 (10x)	98		%	10	04/18/24	HM	70 - 130 %	
Volatile Library Search	Completed				04/17/24	JLI		
Semivolatiles								
1,1-Biphenyl	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2,4,5-Trichlorophenol	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2,4-Dichlorophenol	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2,4-Dimethylphenol	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2,4-Dinitrophenol	ND	660	ug/Kg	1	04/20/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2-Chloronaphthalene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2-Chlorophenol	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2-Methylnaphthalene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
2-Nitroaniline	ND	660	ug/Kg	1	04/20/24	MR	SW8270E	
2-Nitrophenol	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	420	ug/Kg	1	04/20/24	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	500	ug/Kg	1	04/20/24	MR	SW8270E	
3-Nitroaniline	ND	660	ug/Kg	1	04/20/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	1	04/20/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	420	ug/Kg	1	04/20/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
4-Chloroaniline	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
4-Nitroaniline	ND	660	ug/Kg	1	04/20/24	MR	SW8270E	
4-Nitrophenol	ND	1200	ug/Kg	1	04/20/24	MR	SW8270E	
Acenaphthene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
Acenaphthylene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
Acetophenone	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	
Anthracene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E	

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52796
Client ID: SB10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Atrazine	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Benz(a)anthracene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Benzaldehyde	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Benzo(a)pyrene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Benzo(b)fluoranthene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Benzo(ghi)perylene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Benzo(k)fluoranthene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Benzyl butyl phthalate	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	420	ug/Kg	1	04/20/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Caprolactam	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Carbazole	ND	420	ug/Kg	1	04/20/24	MR	SW8270E
Chrysene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	210	ug/Kg	1	04/20/24	MR	SW8270E
Dibenzofuran	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Diethyl phthalate	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Dimethylphthalate	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Di-n-butylphthalate	ND	830	ug/Kg	1	04/20/24	MR	SW8270E
Di-n-octylphthalate	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Fluoranthene	290	290	ug/Kg	1	04/20/24	MR	SW8270E
Fluorene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Hexachlorobenzene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Hexachlorobutadiene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Hexachloroethane	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Isophorone	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Naphthalene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Nitrobenzene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
N-Nitrosodimethylamine	ND	420	ug/Kg	1	04/20/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	210	ug/Kg	1	04/20/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	420	ug/Kg	1	04/20/24	MR	SW8270E
Pentachlorophenol	ND	420	ug/Kg	1	04/20/24	MR	SW8270E
Phenanthrene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Phenol	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
Pyrene	ND	290	ug/Kg	1	04/20/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	04/20/24	MR	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	04/20/24	MR	30 - 130 %
% 2-Fluorophenol	67		%	1	04/20/24	MR	30 - 130 %
% Nitrobenzene-d5	71		%	1	04/20/24	MR	30 - 130 %
% Phenol-d5	71		%	1	04/20/24	MR	30 - 130 %
% Terphenyl-d14	73		%	1	04/20/24	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB10

Phoenix I.D.: CQ52796

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylphenol (o-cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	79		%	1	04/23/24	MR	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	04/23/24	MR	30 - 130 %
% 2-Fluorophenol	62		%	1	04/23/24	MR	15 - 110 %
% Nitrobenzene-d5	73		%	1	04/23/24	MR	30 - 130 %
% Phenol-d5	60		%	1	04/23/24	MR	15 - 110 %
% Terphenyl-d14	78		%	1	04/23/24	MR	30 - 130 %
Semivolatile Library Search	Completed				04/22/24	MR	

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

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

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

Comments:

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Hexavalent Chromium:
This sample is in a reducing state.

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
April 29, 2024
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 29, 2024

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/15/24	10:35
Location Code:	AES-INC	Received by:	SR1	04/16/24	16:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0947				

Laboratory Data

SDG ID: GCQ52795
Phoenix ID: CQ52797

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/18/24	CPP	SW6010D
Aluminum	4450	5.5	mg/Kg	1	04/18/24	TH	SW6010D
Arsenic	1.68	0.74	mg/Kg	1	04/18/24	CPP	SW6010D
Barium	40.8	0.37	mg/Kg	1	04/18/24	CPP	SW6010D
Beryllium	0.30	0.29	mg/Kg	1	04/18/24	CPP	SW6010D
Calcium	1560	5.5	mg/Kg	1	04/18/24	CPP	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	04/18/24	CPP	SW6010D
Cobalt	5.57	0.37	mg/Kg	1	04/18/24	CPP	SW6010D
Chromium	14.0	0.37	mg/Kg	1	04/18/24	CPP	SW6010D
Copper	9.7	0.7	mg/kg	1	04/18/24	CPP	SW6010D
Iron	14100	55	mg/Kg	10	04/18/24	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/17/24	ZT	SW7471B
Potassium	1190	55	mg/Kg	10	04/18/24	CPP	SW6010D
Magnesium	1850	5.5	mg/Kg	1	04/18/24	CPP	SW6010D
Manganese	351	0.37	mg/Kg	1	04/18/24	CPP	SW6010D
Sodium	705	5.5	mg/Kg	1	04/18/24	CPP	SW6010D
Nickel	11.3	0.37	mg/Kg	1	04/18/24	CPP	SW6010D
Lead	5.67	0.37	mg/Kg	1	04/18/24	CPP	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	04/18/24	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/18/24	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Barium	0.43	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	04/17/24	GW	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010D

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52797
Client ID: SB11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.3	3.3	mg/Kg	1	04/18/24	CPP	SW6010D	
TCLP Metals Digestion	Completed				04/17/24	HL/HL	SW3010A	
Vanadium	21.1	0.37	mg/Kg	1	04/18/24	CPP	SW6010D	
Zinc	22.8	0.7	mg/Kg	1	04/18/24	CPP	SW6010D	
Percent Solid	93		%		04/16/24	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	04/16/24	MW	SW846-Corr	1
Flash Point	>200	200	Degree F	1	04/19/24	G	SW1010B	
Chromium, Hexavalent	< 0.40	0.40	mg/Kg	1	04/19/24	BJA	SW7196A	
Ignitability	Passed	140	degree F	1	04/19/24	G	SW846-Ignit	1
pH at 25C - Soil	9.53	1.00	pH Units	1	04/16/24 23:35	MW	SW846 9045D	1
Reactivity Cyanide	< 5	5	mg/Kg	1	04/19/24	EG/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	04/22/24	EG/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	04/22/24	EG/GD	SW846-React	1
Redox Potential	174		mV	1	04/16/24	MW	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.54	0.54	mg/Kg	1	04/23/24	C/D/G	SW9012B	
Mercury Digestion	Completed				04/17/24	MQ/HL	SW7471B	
Extraction of NY ETPH	Completed				04/17/24	C/A	SW3546	
Soil Extraction for PCB	Completed				04/20/24	H/U	SW3546	
Soil Extraction for Pesticides	Completed				04/20/24	H/U	SW3546	
Soil Extraction for SVOA	Completed				04/20/24	J/H/P/E	SW3546	
TCLP Digestion Mercury	Completed				04/17/24	HL/HL	SW7470A	
TCLP Herbicides Extraction	Completed				04/19/24	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				04/16/24	HL	SW1311	
TCLP Extraction for Organics	Completed				04/16/24	HL	SW1311	
TCLP Pesticides Extraction	Completed				04/23/24	LB1/LB1	SW3510C	
TCLP Semi-Volatile Extraction	Completed				04/22/24	F/F	SW3510C	
TCLP Extraction Volatiles	Completed				04/17/24	AL	SW1311	
Total Metals Digest	Completed				04/17/24	J/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	6.4	mg/Kg	50	04/17/24	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	93		%	50	04/17/24	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1221	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1232	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1242	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1248	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1254	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1260	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1262	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1268	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
QA/QC Surrogates								
% DCBP	79		%	2	04/22/24	SC	30 - 150 %	
% DCBP (Confirmation)	76		%	2	04/22/24	SC	30 - 150 %	
% TCMX	71		%	2	04/22/24	SC	30 - 150 %	
% TCMX (Confirmation)	70		%	2	04/22/24	SC	30 - 150 %	

Ver 1

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB11

Phoenix I.D.: CQ52797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Pesticides - Soil								
4,4' -DDD	ND	2.2	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDE	ND	2.2	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDT	ND	2.2	ug/Kg	2	04/23/24	AW	SW8081B	
a-BHC	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
a-Chlordane	ND	3.6	ug/Kg	2	04/23/24	AW	SW8081B	
Aldrin	ND	3.6	ug/Kg	2	04/23/24	AW	SW8081B	
b-BHC	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Chlordane	ND	36	ug/Kg	2	04/23/24	AW	SW8081B	
d-BHC	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Dieldrin	ND	3.6	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan I	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan II	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan sulfate	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin aldehyde	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin ketone	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
g-BHC	ND	1.4	ug/Kg	2	04/23/24	AW	SW8081B	
g-Chlordane	ND	3.6	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor epoxide	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Methoxychlor	ND	36	ug/Kg	2	04/23/24	AW	SW8081B	
Toxaphene	ND	140	ug/Kg	2	04/23/24	AW	SW8081B	
QA/QC Surrogates								
% DCBP	50		%	2	04/23/24	AW	30 - 150 %	
% DCBP (Confirmation)	72		%	2	04/23/24	AW	30 - 150 %	
% TCMX	62		%	2	04/23/24	AW	30 - 150 %	
% TCMX (Confirmation)	61		%	2	04/23/24	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	04/23/24	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	04/23/24	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	75		%	10	04/23/24	JRB	30 - 150 %	
% DCAA (Confirmation)	68		%	10	04/23/24	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	04/26/24	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	04/26/24	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	35		%	10	04/26/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	35		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	64		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	67		%	10	04/26/24	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	53	mg/Kg	1	04/18/24	JRB	SW-846 8015
QA/QC Surrogates							
% COD (surr)	59		%	1	04/18/24	JRB	50 - 150 %
% Terphenyl (surr)	69		%	1	04/18/24	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromoethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
2-Hexanone	ND	29	ug/kg	1	04/17/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	29	ug/kg	1	04/17/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	04/17/24	JLI	SW8260D
Benzene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Bromochloromethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Bromodichloromethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Bromoform	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Bromomethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Carbon Disulfide	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Carbon tetrachloride	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Chlorobenzene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Chloroethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Chloroform	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Chloromethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Cyclohexane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Dibromochloromethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Ethylbenzene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Isopropylbenzene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
m&p-Xylene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Methyl ethyl ketone	ND	35	ug/kg	1	04/17/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	04/17/24	JLI	SW8260D
Methylacetate	ND	4.6	ug/kg	1	04/17/24	JLI	SW8260D
Methylcyclohexane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Methylene chloride	ND	29	ug/kg	1	04/17/24	JLI	SW8260D
o-Xylene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Styrene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Tetrachloroethene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Toluene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Total Xylenes	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Trichloroethene	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
Vinyl chloride	ND	5.8	ug/kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	04/17/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	87	ug/kg	1	04/17/24	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	04/17/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	04/17/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	04/17/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.8	ug/Kg	1	04/17/24	JLI	SW8260D
n-Butylbenzene	ND	5.8	ug/Kg	1	04/17/24	JLI	SW8260D
n-Propylbenzene	ND	5.8	ug/Kg	1	04/17/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.8	ug/Kg	1	04/17/24	JLI	SW8260D
sec-Butylbenzene	ND	5.8	ug/Kg	1	04/17/24	JLI	SW8260D
tert-Butylbenzene	ND	5.8	ug/Kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	04/17/24	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2-Dichloroethane	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
1,4-Dichlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Benzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Carbon tetrachloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chloroform	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Methyl ethyl ketone	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Tetrachloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Trichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Vinyl chloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	04/18/24	HM	70 - 130 %	
% Bromofluorobenzene (10x)	95		%	10	04/18/24	HM	70 - 130 %	
% Dibromofluoromethane (10x)	104		%	10	04/18/24	HM	70 - 130 %	
% Toluene-d8 (10x)	98		%	10	04/18/24	HM	70 - 130 %	
Volatile Library Search	Completed				04/17/24	JLI		
Semivolatiles								
1,1-Biphenyl	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dichlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dimethylphenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrophenol	ND	560	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chloronaphthalene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylnaphthalene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitroaniline	ND	560	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitrophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	04/21/24	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	420	ug/Kg	1	04/21/24	MR	SW8270E	
3-Nitroaniline	ND	560	ug/Kg	1	04/21/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	04/21/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloroaniline	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitroaniline	ND	560	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitrophenol	ND	1000	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthylene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
Acetophenone	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
Anthracene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Atrazine	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzaldehyde	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Caprolactam	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Carbazole	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	04/21/24	MR	SW8270E
Dibenzofuran	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-butylphthalate	ND	700	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobutadiene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Nitrobenzene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodimethylamine	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
Pentachlorophenol	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Phenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	80		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorophenol	67		%	1	04/21/24	MR	30 - 130 %
% Nitrobenzene-d5	64		%	1	04/21/24	MR	30 - 130 %
% Phenol-d5	69		%	1	04/21/24	MR	30 - 130 %
% Terphenyl-d14	70		%	1	04/21/24	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylphenol (o-cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	61		%	1	04/23/24	MR	15 - 110 %
% 2-Fluorobiphenyl	52		%	1	04/23/24	MR	30 - 130 %
% 2-Fluorophenol	52		%	1	04/23/24	MR	15 - 110 %
% Nitrobenzene-d5	59		%	1	04/23/24	MR	30 - 130 %
% Phenol-d5	45		%	1	04/23/24	MR	15 - 110 %
% Terphenyl-d14	58		%	1	04/23/24	MR	30 - 130 %
Semivolatile Library Search	Completed				04/22/24	MR	

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

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

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

Comments:

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Hexavalent Chromium:
This sample is in a reducing state.

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
April 29, 2024
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 29, 2024

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/15/24	10:00
Location Code:	AES-INC	Received by:	SR1	04/16/24	16:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0947				

Laboratory Data

SDG ID: GCQ52795
Phoenix ID: CQ52798

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Aluminum	8070	50	mg/Kg	10	04/18/24	TH	SW6010D
Arsenic	2.83	0.67	mg/Kg	1	04/18/24	CPP	SW6010D
Barium	64.2	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Beryllium	0.37	0.27	mg/Kg	1	04/18/24	CPP	SW6010D
Calcium	8050	5.0	mg/Kg	1	04/18/24	CPP	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Cobalt	9.02	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Chromium	15.9	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Copper	91.0	0.7	mg/kg	1	04/18/24	CPP	SW6010D
Iron	25500	50	mg/Kg	10	04/18/24	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/17/24	ZT	SW7471B
Potassium	1480	50	mg/Kg	10	04/18/24	CPP	SW6010D
Magnesium	3080	5.0	mg/Kg	1	04/18/24	CPP	SW6010D
Manganese	423	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Sodium	709	5.0	mg/Kg	1	04/18/24	CPP	SW6010D
Nickel	16.9	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Lead	57.3	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	04/18/24	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	04/18/24	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Barium	0.55	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	04/17/24	GW	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010D

Ver 1

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.0	3.0	mg/Kg	1	04/18/24	CPP	SW6010D	
TCLP Metals Digestion	Completed				04/17/24	HL/HL	SW3010A	
Vanadium	34.4	0.34	mg/Kg	1	04/18/24	CPP	SW6010D	
Zinc	58.0	0.7	mg/Kg	1	04/18/24	CPP	SW6010D	
Percent Solid	93		%		04/16/24	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	04/16/24	MW	SW846-Corr	1
Flash Point	>200	200	Degree F	1	04/19/24	G	SW1010B	
Chromium, Hexavalent	< 0.43	0.43	mg/Kg	1	04/19/24	BJA	SW7196A	
Ignitability	Passed	140	degree F	1	04/19/24	G	SW846-Ignit	1
pH at 25C - Soil	8.14	1.00	pH Units	1	04/16/24 23:35	MW	SW846 9045D	1
Reactivity Cyanide	< 5	5	mg/Kg	1	04/19/24	EG/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	04/22/24	EG/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	04/22/24	EG/GD	SW846-React	1
Redox Potential	431		mV	1	04/16/24	MW	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.54	0.54	mg/Kg	1	04/23/24	C/D/G	SW9012B	
Mercury Digestion	Completed				04/17/24	MQ/HL	SW7471B	
Extraction of NY ETPH	Completed				04/17/24	C/A	SW3546	
Soil Extraction for PCB	Completed				04/20/24	H/U	SW3546	
Soil Extraction for Pesticides	Completed				04/20/24	H/U	SW3546	
Soil Extraction for SVOA	Completed				04/20/24	J/H/P/E	SW3546	
TCLP Digestion Mercury	Completed				04/17/24	HL/HL	SW7470A	
TCLP Herbicides Extraction	Completed				04/19/24	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				04/16/24	HL	SW1311	
TCLP Extraction for Organics	Completed				04/16/24	HL	SW1311	
TCLP Pesticides Extraction	Completed				04/23/24	LB1/LB1	SW3510C	
TCLP Semi-Volatile Extraction	Completed				04/22/24	F/F	SW3510C	
TCLP Extraction Volatiles	Completed				04/17/24	AL	SW1311	
Total Metals Digest	Completed				04/17/24	J/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	8.9	mg/Kg	50	04/17/24	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	90		%	50	04/17/24	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	70	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1221	ND	70	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1232	ND	70	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1242	ND	70	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1248	ND	70	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1254	ND	70	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1260	ND	70	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1262	ND	70	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1268	ND	70	ug/Kg	2	04/22/24	SC	SW8082A	
QA/QC Surrogates								
% DCBP	86		%	2	04/22/24	SC	30 - 150 %	
% DCBP (Confirmation)	84		%	2	04/22/24	SC	30 - 150 %	
% TCMX	80		%	2	04/22/24	SC	30 - 150 %	
% TCMX (Confirmation)	81		%	2	04/22/24	SC	30 - 150 %	

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Pesticides - Soil								
4,4' -DDD	ND	2.1	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDE	ND	2.1	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDT	ND	2.1	ug/Kg	2	04/23/24	AW	SW8081B	
a-BHC	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
a-Chlordane	ND	3.5	ug/Kg	2	04/23/24	AW	SW8081B	
Aldrin	ND	3.5	ug/Kg	2	04/23/24	AW	SW8081B	
b-BHC	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
Chlordane	ND	35	ug/Kg	2	04/23/24	AW	SW8081B	
d-BHC	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
Dieldrin	ND	3.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan I	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan II	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan sulfate	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin aldehyde	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin ketone	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
g-BHC	ND	1.4	ug/Kg	2	04/23/24	AW	SW8081B	
g-Chlordane	ND	3.5	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor epoxide	ND	7.0	ug/Kg	2	04/23/24	AW	SW8081B	
Methoxychlor	ND	35	ug/Kg	2	04/23/24	AW	SW8081B	
Toxaphene	ND	140	ug/Kg	2	04/23/24	AW	SW8081B	
QA/QC Surrogates								
% DCBP	62		%	2	04/23/24	AW	30 - 150 %	
% DCBP (Confirmation)	84		%	2	04/23/24	AW	30 - 150 %	
% TCMX	76		%	2	04/23/24	AW	30 - 150 %	
% TCMX (Confirmation)	76		%	2	04/23/24	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	04/23/24	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	04/23/24	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	77		%	10	04/23/24	JRB	30 - 150 %	
% DCAA (Confirmation)	71		%	10	04/23/24	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	04/26/24	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	

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Endosulfan Sulfate	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	04/26/24	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	77		%	10	04/26/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	78		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	70		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	73		%	10	04/26/24	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	260	mg/Kg	5	04/19/24	JRB	SW-846 8015
QA/QC Surrogates							
% COD (surr)	66		%	5	04/19/24	JRB	50 - 150 %
% Terphenyl (surr)	85		%	5	04/19/24	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromoethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloroethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloropropane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
2-Hexanone	ND	33	ug/kg	1	04/17/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	33	ug/kg	1	04/17/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	04/17/24	JLI	SW8260D
Benzene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Bromochloromethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Bromodichloromethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Bromoform	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Bromomethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Carbon Disulfide	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Carbon tetrachloride	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Chlorobenzene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Chloroethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Chloroform	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Chloromethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D

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cis-1,3-Dichloropropene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Cyclohexane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Dibromochloromethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Dichlorodifluoromethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Ethylbenzene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Isopropylbenzene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
m&p-Xylene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Methyl ethyl ketone	ND	40	ug/kg	1	04/17/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	1	04/17/24	JLI	SW8260D
Methylacetate	ND	5.3	ug/kg	1	04/17/24	JLI	SW8260D
Methylcyclohexane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Methylene chloride	ND	33	ug/kg	1	04/17/24	JLI	SW8260D
o-Xylene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Styrene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Tetrachloroethene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Toluene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Total Xylenes	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Trichloroethene	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorofluoromethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
Vinyl chloride	ND	6.6	ug/kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	95		%	1	04/17/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	99	ug/kg	1	04/17/24	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	04/17/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	04/17/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	04/17/24	JLI	SW8260D
1,3-Dichloropropane	ND	6.6	ug/Kg	1	04/17/24	JLI	SW8260D
n-Butylbenzene	ND	6.6	ug/Kg	1	04/17/24	JLI	SW8260D
n-Propylbenzene	ND	6.6	ug/Kg	1	04/17/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.6	ug/Kg	1	04/17/24	JLI	SW8260D
sec-Butylbenzene	ND	6.6	ug/Kg	1	04/17/24	JLI	SW8260D
tert-Butylbenzene	ND	6.6	ug/Kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	95		%	1	04/17/24	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260

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1,2-Dichloroethane	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
1,4-Dichlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Benzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Carbon tetrachloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chloroform	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Methyl ethyl ketone	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Tetrachloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Trichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Vinyl chloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	04/18/24	HM	70 - 130 %	
% Bromofluorobenzene (10x)	95		%	10	04/18/24	HM	70 - 130 %	
% Dibromofluoromethane (10x)	100		%	10	04/18/24	HM	70 - 130 %	
% Toluene-d8 (10x)	98		%	10	04/18/24	HM	70 - 130 %	
Volatile Library Search	Completed				04/17/24	JLI		
Semivolatiles								
1,1-Biphenyl	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dichlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dimethylphenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrophenol	ND	560	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chloronaphthalene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylnaphthalene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitroaniline	ND	560	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitrophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	04/21/24	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	420	ug/Kg	1	04/21/24	MR	SW8270E	
3-Nitroaniline	ND	560	ug/Kg	1	04/21/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	04/21/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloroaniline	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitroaniline	ND	560	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitrophenol	ND	1000	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthylene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
Acetophenone	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
Anthracene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	

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Atrazine	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzaldehyde	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Caprolactam	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Carbazole	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	04/21/24	MR	SW8270E
Dibenzofuran	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-butylphthalate	ND	710	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobutadiene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Nitrobenzene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodimethylamine	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
Pentachlorophenol	ND	350	ug/Kg	1	04/21/24	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Phenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	73		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorophenol	60		%	1	04/21/24	MR	30 - 130 %
% Nitrobenzene-d5	57		%	1	04/21/24	MR	30 - 130 %
% Phenol-d5	61		%	1	04/21/24	MR	30 - 130 %
% Terphenyl-d14	66		%	1	04/21/24	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB12

Phoenix I.D.: CQ52798

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylphenol (o-cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	64		%	1	04/23/24	MR	15 - 110 %
% 2-Fluorobiphenyl	59		%	1	04/23/24	MR	30 - 130 %
% 2-Fluorophenol	56		%	1	04/23/24	MR	15 - 110 %
% Nitrobenzene-d5	67		%	1	04/23/24	MR	30 - 130 %
% Phenol-d5	51		%	1	04/23/24	MR	15 - 110 %
% Terphenyl-d14	60		%	1	04/23/24	MR	30 - 130 %
Semivolatile Library Search	Completed				04/22/24	MR	

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52798
Client ID: SB12

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

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

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

Comments:

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

TPH Comment:
The sample chromatorgram exhibited non-DRO material outside the C10-C28 range.

Hexavalent Chromium:
This sample is in an oxidizing state.

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
April 29, 2024
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 29, 2024

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/15/24	9:00
Location Code:	AES-INC	Received by:	SR1	04/16/24	16:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0947				

Laboratory Data

SDG ID: GCQ52795
Phoenix ID: CQ52799

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/18/24	CPP	SW6010D
Aluminum	5810	5.7	mg/Kg	1	04/18/24	TH	SW6010D
Arsenic	2.57	0.75	mg/Kg	1	04/18/24	CPP	SW6010D
Barium	41.8	0.38	mg/Kg	1	04/18/24	CPP	SW6010D
Beryllium	0.42	0.30	mg/Kg	1	04/18/24	CPP	SW6010D
Calcium	896	5.7	mg/Kg	1	04/18/24	CPP	SW6010D
Cadmium	< 0.38	0.38	mg/Kg	1	04/18/24	CPP	SW6010D
Cobalt	18.4	0.38	mg/Kg	1	04/18/24	CPP	SW6010D
Chromium	13.7	0.38	mg/Kg	1	04/18/24	CPP	SW6010D
Copper	15.0	0.8	mg/kg	1	04/18/24	CPP	SW6010D
Iron	17800	57	mg/Kg	10	04/18/24	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/17/24	ZT	SW7471B
Potassium	909	57	mg/Kg	10	04/18/24	CPP	SW6010D
Magnesium	1640	5.7	mg/Kg	1	04/18/24	CPP	SW6010D
Manganese	564	0.38	mg/Kg	1	04/18/24	CPP	SW6010D
Sodium	237	5.7	mg/Kg	1	04/18/24	CPP	SW6010D
Nickel	11.9	0.38	mg/Kg	1	04/18/24	CPP	SW6010D
Lead	11.6	0.38	mg/Kg	1	04/18/24	CPP	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	04/18/24	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/18/24	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Barium	0.32	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	04/17/24	GW	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010D

Ver 1

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52799
Client ID: SB13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.4	3.4	mg/Kg	1	04/18/24	CPP	SW6010D	
TCLP Metals Digestion	Completed				04/17/24	HL/HL	SW3010A	
Vanadium	25.8	0.38	mg/Kg	1	04/18/24	CPP	SW6010D	
Zinc	22.0	0.8	mg/Kg	1	04/18/24	CPP	SW6010D	
Percent Solid	85		%		04/16/24	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	04/16/24	MW	SW846-Corr	1
Flash Point	>200	200	Degree F	1	04/19/24	G	SW1010B	
Chromium, Hexavalent	< 0.43	0.43	mg/Kg	1	04/19/24	BJA	SW7196A	
Ignitability	Passed	140	degree F	1	04/19/24	G	SW846-Ignit	1
pH at 25C - Soil	8.49	1.00	pH Units	1	04/16/24 23:35	MW	SW846 9045D	1
Reactivity Cyanide	< 5	5	mg/Kg	1	04/19/24	EG/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	04/22/24	EG/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	04/22/24	EG/GD	SW846-React	1
Redox Potential	292		mV	1	04/16/24	MW	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	04/23/24	C/D/G	SW9012B	
Mercury Digestion	Completed				04/17/24	MQ/HL	SW7471B	
Extraction of NY ETPH	Completed				04/17/24	C/A	SW3546	
Soil Extraction for PCB	Completed				04/20/24	H/U	SW3546	
Soil Extraction for Pesticides	Completed				04/20/24	H/U	SW3546	
Soil Extraction for SVOA	Completed				04/20/24	J/H/P/E	SW3546	
TCLP Digestion Mercury	Completed				04/17/24	HL/HL	SW7470A	
TCLP Herbicides Extraction	Completed				04/19/24	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				04/16/24	HL	SW1311	
TCLP Extraction for Organics	Completed				04/16/24	HL	SW1311	
TCLP Pesticides Extraction	Completed				04/23/24	LB1/LB1	SW3510C	
TCLP Semi-Volatile Extraction	Completed				04/22/24	F/F	SW3510C	
TCLP Extraction Volatiles	Completed				04/17/24	AL	SW1311	
Total Metals Digest	Completed				04/17/24	J/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	6.9	mg/Kg	50	04/17/24	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	95		%	50	04/17/24	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	78	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1221	ND	78	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1232	ND	78	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1242	ND	78	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1248	ND	78	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1254	ND	78	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1260	ND	78	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1262	ND	78	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1268	ND	78	ug/Kg	2	04/22/24	SC	SW8082A	
QA/QC Surrogates								
% DCBP	68		%	2	04/22/24	SC	30 - 150 %	
% DCBP (Confirmation)	71		%	2	04/22/24	SC	30 - 150 %	
% TCMX	71		%	2	04/22/24	SC	30 - 150 %	
% TCMX (Confirmation)	72		%	2	04/22/24	SC	30 - 150 %	

Ver 1

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB13

Phoenix I.D.: CQ52799

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Pesticides - Soil								
4,4' -DDD	ND	2.3	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDE	ND	2.3	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDT	ND	2.3	ug/Kg	2	04/23/24	AW	SW8081B	
a-BHC	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
a-Chlordane	ND	3.9	ug/Kg	2	04/23/24	AW	SW8081B	
Aldrin	ND	3.9	ug/Kg	2	04/23/24	AW	SW8081B	
b-BHC	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
Chlordane	ND	39	ug/Kg	2	04/23/24	AW	SW8081B	
d-BHC	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
Dieldrin	ND	3.9	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan I	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan II	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan sulfate	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin aldehyde	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin ketone	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
g-BHC	ND	1.6	ug/Kg	2	04/23/24	AW	SW8081B	
g-Chlordane	ND	3.9	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor epoxide	ND	7.8	ug/Kg	2	04/23/24	AW	SW8081B	
Methoxychlor	ND	39	ug/Kg	2	04/23/24	AW	SW8081B	
Toxaphene	ND	160	ug/Kg	2	04/23/24	AW	SW8081B	
QA/QC Surrogates								
% DCBP	47		%	2	04/23/24	AW	30 - 150 %	
% DCBP (Confirmation)	56		%	2	04/23/24	AW	30 - 150 %	
% TCMX	58		%	2	04/23/24	AW	30 - 150 %	
% TCMX (Confirmation)	61		%	2	04/23/24	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	04/23/24	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	04/23/24	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	79		%	10	04/23/24	JRB	30 - 150 %	
% DCAA (Confirmation)	72		%	10	04/23/24	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	04/26/24	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	04/26/24	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	78		%	10	04/26/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	81		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	79		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	82		%	10	04/26/24	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	59	mg/Kg	1	04/18/24	JRB	SW-846 8015
QA/QC Surrogates							
% COD (surr)	69		%	1	04/18/24	JRB	50 - 150 %
% Terphenyl (surr)	80		%	1	04/18/24	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromoethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloroethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloropropane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
2-Hexanone	ND	36	ug/kg	1	04/17/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	36	ug/kg	1	04/17/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	04/17/24	JLI	SW8260D
Benzene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Bromochloromethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Bromodichloromethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Bromoform	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Bromomethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Carbon Disulfide	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Carbon tetrachloride	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Chlorobenzene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Chloroethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Chloroform	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Chloromethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Cyclohexane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Dibromochloromethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Dichlorodifluoromethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Ethylbenzene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Isopropylbenzene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
m&p-Xylene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Methyl ethyl ketone	ND	43	ug/kg	1	04/17/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	14	ug/kg	1	04/17/24	JLI	SW8260D
Methylacetate	ND	5.7	ug/kg	1	04/17/24	JLI	SW8260D
Methylcyclohexane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Methylene chloride	ND	36	ug/kg	1	04/17/24	JLI	SW8260D
o-Xylene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Styrene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Tetrachloroethene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Toluene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Total Xylenes	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Trichloroethene	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorofluoromethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
Vinyl chloride	ND	7.2	ug/kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	97		%	1	04/17/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	100	ug/kg	1	04/17/24	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	7.2	ug/Kg	1	04/17/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.2	ug/Kg	1	04/17/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.2	ug/Kg	1	04/17/24	JLI	SW8260D
1,3-Dichloropropane	ND	7.2	ug/Kg	1	04/17/24	JLI	SW8260D
n-Butylbenzene	ND	7.2	ug/Kg	1	04/17/24	JLI	SW8260D
n-Propylbenzene	ND	7.2	ug/Kg	1	04/17/24	JLI	SW8260D
p-Isopropyltoluene	ND	7.2	ug/Kg	1	04/17/24	JLI	SW8260D
sec-Butylbenzene	ND	7.2	ug/Kg	1	04/17/24	JLI	SW8260D
tert-Butylbenzene	ND	7.2	ug/Kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	97		%	1	04/17/24	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52799
Client ID: SB13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2-Dichloroethane	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
1,4-Dichlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Benzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Carbon tetrachloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chloroform	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Methyl ethyl ketone	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Tetrachloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Trichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Vinyl chloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	04/18/24	HM	70 - 130 %	
% Bromofluorobenzene (10x)	96		%	10	04/18/24	HM	70 - 130 %	
% Dibromofluoromethane (10x)	100		%	10	04/18/24	HM	70 - 130 %	
% Toluene-d8 (10x)	98		%	10	04/18/24	HM	70 - 130 %	
Volatile Library Search	Completed				04/17/24	JLI		
Semivolatiles								
1,1-Biphenyl	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrophenol	ND	620	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylnaphthalene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitroaniline	ND	620	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	04/21/24	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	04/21/24	MR	SW8270E	
3-Nitroaniline	ND	620	ug/Kg	1	04/21/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	04/21/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitroaniline	ND	620	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
Acetophenone	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	
Anthracene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Atrazine	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Benz(a)anthracene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Benzaldehyde	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(a)pyrene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(b)fluoranthene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(ghi)perylene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(k)fluoranthene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Caprolactam	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Carbazole	ND	390	ug/Kg	1	04/21/24	MR	SW8270E
Chrysene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	04/21/24	MR	SW8270E
Dibenzofuran	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-butylphthalate	ND	780	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Fluoranthene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Fluorene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	04/21/24	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	04/21/24	MR	SW8270E
Phenanthrene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Phenol	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
Pyrene	ND	270	ug/Kg	1	04/21/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	72		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorophenol	60		%	1	04/21/24	MR	30 - 130 %
% Nitrobenzene-d5	58		%	1	04/21/24	MR	30 - 130 %
% Phenol-d5	61		%	1	04/21/24	MR	30 - 130 %
% Terphenyl-d14	64		%	1	04/21/24	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB13

Phoenix I.D.: CQ52799

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylphenol (o-cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	04/23/24	MR	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	04/23/24	MR	30 - 130 %
% 2-Fluorophenol	56		%	1	04/23/24	MR	15 - 110 %
% Nitrobenzene-d5	69		%	1	04/23/24	MR	30 - 130 %
% Phenol-d5	52		%	1	04/23/24	MR	15 - 110 %
% Terphenyl-d14	65		%	1	04/23/24	MR	30 - 130 %
Semivolatile Library Search	Completed				04/22/24	MR	

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52799
Client ID: SB13

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

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

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

Comments:

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Hexavalent Chromium:
This sample is in a reducing state.

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
April 29, 2024
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 29, 2024

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/15/24	8:50
Location Code:	AES-INC	Received by:	SR1	04/16/24	16:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0947				

Laboratory Data

SDG ID: GCQ52795
Phoenix ID: CQ52800

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/18/24	CPP	SW6010D
Aluminum	5340	5.4	mg/Kg	1	04/18/24	TH	SW6010D
Arsenic	2.26	0.72	mg/Kg	1	04/18/24	CPP	SW6010D
Barium	36.3	0.36	mg/Kg	1	04/18/24	CPP	SW6010D
Beryllium	0.35	0.29	mg/Kg	1	04/18/24	CPP	SW6010D
Calcium	1180	5.4	mg/Kg	1	04/18/24	CPP	SW6010D
Cadmium	< 0.36	0.36	mg/Kg	1	04/18/24	CPP	SW6010D
Cobalt	5.27	0.36	mg/Kg	1	04/18/24	CPP	SW6010D
Chromium	13.3	0.36	mg/Kg	1	04/18/24	CPP	SW6010D
Copper	16.3	0.7	mg/kg	1	04/18/24	CPP	SW6010D
Iron	19800	54	mg/Kg	10	04/18/24	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/18/24	ZT	SW7471B
Potassium	1210	54	mg/Kg	10	04/18/24	CPP	SW6010D
Magnesium	1620	5.4	mg/Kg	1	04/18/24	CPP	SW6010D
Manganese	304	0.36	mg/Kg	1	04/18/24	CPP	SW6010D
Sodium	320	5.4	mg/Kg	1	04/18/24	CPP	SW6010D
Nickel	8.98	0.36	mg/Kg	1	04/18/24	CPP	SW6010D
Lead	5.92	0.36	mg/Kg	1	04/18/24	CPP	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	04/18/24	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/18/24	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Barium	0.38	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	04/17/24	GW	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010D

Ver 1

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52800
Client ID: SB14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.2	3.2	mg/Kg	1	04/18/24	CPP	SW6010D	
TCLP Metals Digestion	Completed				04/17/24	HL/HL	SW3010A	
Vanadium	23.6	0.36	mg/Kg	1	04/18/24	CPP	SW6010D	
Zinc	26.2	0.7	mg/Kg	1	04/18/24	CPP	SW6010D	
Percent Solid	92		%		04/16/24	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	04/16/24	MW	SW846-Corr	1
Flash Point	>200	200	Degree F	1	04/19/24	G	SW1010B	
Chromium, Hexavalent	< 0.42	0.42	mg/Kg	1	04/22/24	NP	SW7196A	
Ignitability	Passed	140	degree F	1	04/19/24	G	SW846-Ignit	1
pH at 25C - Soil	8.30	1.00	pH Units	1	04/16/24 23:35	MW	SW846 9045D	1
Reactivity Cyanide	< 5	5	mg/Kg	1	04/19/24	EG/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	04/22/24	EG/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	04/22/24	EG/GD	SW846-React	1
Redox Potential	273		mV	1	04/16/24	MW	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.54	0.54	mg/Kg	1	04/23/24	C/D/G	SW9012B	
Mercury Digestion	Completed				04/18/24	HL/HL	SW7471B	
Extraction of NY ETPH	Completed				04/17/24	C/A	SW3546	
Soil Extraction for PCB	Completed				04/20/24	H/U	SW3546	
Soil Extraction for Pesticides	Completed				04/20/24	H/U	SW3546	
Soil Extraction for SVOA	Completed				04/20/24	J/H/P/E	SW3546	
TCLP Digestion Mercury	Completed				04/17/24	HL/HL	SW7470A	
TCLP Herbicides Extraction	Completed				04/24/24	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				04/16/24	HL	SW1311	
TCLP Extraction for Organics	Completed				04/16/24	HL	SW1311	
TCLP Pesticides Extraction	Completed				04/23/24	LB1/LB1	SW3510C	
TCLP Semi-Volatile Extraction	Completed				04/22/24	F/F	SW3510C	
TCLP Extraction Volatiles	Completed				04/17/24	AL	SW1311	
Total Metals Digest	Completed				04/17/24	J/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	6.6	mg/Kg	50	04/17/24	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	89		%	50	04/17/24	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1221	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1232	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1242	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1248	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1254	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1260	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1262	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1268	ND	72	ug/Kg	2	04/22/24	SC	SW8082A	
QA/QC Surrogates								
% DCBP	74		%	2	04/22/24	SC	30 - 150 %	
% DCBP (Confirmation)	72		%	2	04/22/24	SC	30 - 150 %	
% TCMX	65		%	2	04/22/24	SC	30 - 150 %	
% TCMX (Confirmation)	63		%	2	04/22/24	SC	30 - 150 %	

Ver 1

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Pesticides - Soil								
4,4' -DDD	ND	2.1	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDE	ND	2.1	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDT	ND	2.1	ug/Kg	2	04/23/24	AW	SW8081B	
a-BHC	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
a-Chlordane	ND	3.6	ug/Kg	2	04/23/24	AW	SW8081B	
Aldrin	ND	3.6	ug/Kg	2	04/23/24	AW	SW8081B	
b-BHC	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Chlordane	ND	36	ug/Kg	2	04/23/24	AW	SW8081B	
d-BHC	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Dieldrin	ND	3.6	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan I	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan II	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan sulfate	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin aldehyde	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin ketone	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
g-BHC	ND	1.4	ug/Kg	2	04/23/24	AW	SW8081B	
g-Chlordane	ND	3.6	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor epoxide	ND	7.2	ug/Kg	2	04/23/24	AW	SW8081B	
Methoxychlor	ND	36	ug/Kg	2	04/23/24	AW	SW8081B	
Toxaphene	ND	140	ug/Kg	2	04/23/24	AW	SW8081B	
QA/QC Surrogates								
% DCBP	57		%	2	04/23/24	AW	30 - 150 %	
% DCBP (Confirmation)	63		%	2	04/23/24	AW	30 - 150 %	
% TCMX	66		%	2	04/23/24	AW	30 - 150 %	
% TCMX (Confirmation)	66		%	2	04/23/24	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	04/25/24	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	04/25/24	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	65		%	10	04/25/24	JRB	30 - 150 %	
% DCAA (Confirmation)	72		%	10	04/25/24	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	04/26/24	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	04/26/24	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	50		%	10	04/26/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	49		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	75		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	77		%	10	04/26/24	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	53	mg/Kg	1	04/18/24	JRB	SW-846 8015
QA/QC Surrogates							
% COD (surr)	70		%	1	04/18/24	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	04/18/24	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromoethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
2-Hexanone	ND	26	ug/kg	1	04/17/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	26	ug/kg	1	04/17/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	04/17/24	JLI	SW8260D
Benzene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Bromochloromethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Bromodichloromethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Bromoform	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Bromomethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Carbon Disulfide	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Carbon tetrachloride	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Chlorobenzene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Chloroethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Chloroform	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Chloromethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Cyclohexane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Dibromochloromethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Ethylbenzene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Isopropylbenzene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
m&p-Xylene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Methyl ethyl ketone	ND	31	ug/kg	1	04/17/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	04/17/24	JLI	SW8260D
Methylacetate	ND	4.1	ug/kg	1	04/17/24	JLI	SW8260D
Methylcyclohexane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Methylene chloride	ND	26	ug/kg	1	04/17/24	JLI	SW8260D
o-Xylene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Styrene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Tetrachloroethene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Toluene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Total Xylenes	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Trichloroethene	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
Vinyl chloride	ND	5.1	ug/kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	04/17/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	77	ug/kg	1	04/17/24	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	04/17/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	04/17/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	04/17/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.1	ug/Kg	1	04/17/24	JLI	SW8260D
n-Butylbenzene	ND	5.1	ug/Kg	1	04/17/24	JLI	SW8260D
n-Propylbenzene	ND	5.1	ug/Kg	1	04/17/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.1	ug/Kg	1	04/17/24	JLI	SW8260D
sec-Butylbenzene	ND	5.1	ug/Kg	1	04/17/24	JLI	SW8260D
tert-Butylbenzene	ND	5.1	ug/Kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	04/17/24	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2-Dichloroethane	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
1,4-Dichlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Benzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Carbon tetrachloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chlorobenzene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Chloroform	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Methyl ethyl ketone	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Tetrachloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Trichloroethene	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
Vinyl chloride	ND	50	ug/L	10	04/18/24	HM	SW846 1311/8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	04/18/24	HM	70 - 130 %	
% Bromofluorobenzene (10x)	97		%	10	04/18/24	HM	70 - 130 %	
% Dibromofluoromethane (10x)	101		%	10	04/18/24	HM	70 - 130 %	
% Toluene-d8 (10x)	99		%	10	04/18/24	HM	70 - 130 %	
Volatile Library Search	Completed				04/17/24	JLI		
Semivolatiles								
1,1-Biphenyl	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dichlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dimethylphenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrophenol	ND	570	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chloronaphthalene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chlorophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylnaphthalene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitroaniline	ND	570	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitrophenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	04/21/24	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	430	ug/Kg	1	04/21/24	MR	SW8270E	
3-Nitroaniline	ND	570	ug/Kg	1	04/21/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	04/21/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloroaniline	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitroaniline	ND	570	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitrophenol	ND	1000	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthylene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
Acetophenone	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	
Anthracene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Atrazine	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzaldehyde	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Caprolactam	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Carbazole	ND	360	ug/Kg	1	04/21/24	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	04/21/24	MR	SW8270E
Dibenzofuran	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-butylphthalate	ND	720	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobutadiene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Nitrobenzene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodimethylamine	ND	360	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	04/21/24	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	04/21/24	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Phenol	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	04/21/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	82		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorophenol	70		%	1	04/21/24	MR	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/21/24	MR	30 - 130 %
% Phenol-d5	73		%	1	04/21/24	MR	30 - 130 %
% Terphenyl-d14	72		%	1	04/21/24	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB14

Phoenix I.D.: CQ52800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylphenol (o-cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	04/23/24	MR	15 - 110 %
% 2-Fluorobiphenyl	61		%	1	04/23/24	MR	30 - 130 %
% 2-Fluorophenol	51		%	1	04/23/24	MR	15 - 110 %
% Nitrobenzene-d5	66		%	1	04/23/24	MR	30 - 130 %
% Phenol-d5	49		%	1	04/23/24	MR	15 - 110 %
% Terphenyl-d14	66		%	1	04/23/24	MR	30 - 130 %
Semivolatile Library Search	Completed				04/22/24	MR	

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

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

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

Comments:

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Hexavalent Chromium:
This sample is in a reducing state.

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
April 29, 2024
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 29, 2024

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/15/24	8:20
Location Code:	AES-INC	Received by:	SR1	04/16/24	16:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0947				

Laboratory Data

SDG ID: GCQ52795
Phoenix ID: CQ52801

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Aluminum	6590	5.1	mg/Kg	1	04/18/24	TH	SW6010D
Arsenic	2.03	0.68	mg/Kg	1	04/18/24	CPP	SW6010D
Barium	36.0	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Beryllium	0.36	0.27	mg/Kg	1	04/18/24	CPP	SW6010D
Calcium	1290	5.1	mg/Kg	1	04/18/24	CPP	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Cobalt	5.78	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Chromium	12.7	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Copper	12.2	0.7	mg/kg	1	04/18/24	CPP	SW6010D
Iron	13300	51	mg/Kg	10	04/18/24	CPP	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/18/24	ZT	SW7471B
Potassium	752	51	mg/Kg	10	04/18/24	CPP	SW6010D
Magnesium	1750	5.1	mg/Kg	1	04/18/24	CPP	SW6010D
Manganese	296	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Sodium	236	5.1	mg/Kg	1	04/18/24	CPP	SW6010D
Nickel	10.9	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Lead	10.0	0.34	mg/Kg	1	04/18/24	CPP	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	04/18/24	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/18/24	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Barium	0.44	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	04/17/24	GW	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	04/17/24	PM	SW846 1311/6010D

Ver 1

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52801
Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.0	3.0	mg/Kg	1	04/18/24	CPP	SW6010D	
TCLP Metals Digestion	Completed				04/17/24	HL/HL	SW3010A	
Vanadium	22.0	0.34	mg/Kg	1	04/18/24	CPP	SW6010D	
Zinc	23.6	0.7	mg/Kg	1	04/18/24	CPP	SW6010D	
Percent Solid	87		%		04/16/24	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	04/16/24	MW	SW846-Corr	1
Flash Point	>200	200	Degree F	1	04/19/24	G	SW1010B	
Chromium, Hexavalent	< 0.41	0.41	mg/Kg	1	04/22/24	NP	SW7196A	
Ignitability	Passed	140	degree F	1	04/19/24	G	SW846-Ignit	1
pH at 25C - Soil	9.03	1.00	pH Units	1	04/16/24 23:35	MW	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	04/19/24	EG/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	04/22/24	EG/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	04/22/24	EG/GD	SW846-React	1
Redox Potential	250		mV	1	04/16/24	MW	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.57	0.57	mg/Kg	1	04/23/24	C/D/G	SW9012B	
Mercury Digestion	Completed				04/18/24	HL/HL	SW7471B	
Extraction of NY ETPH	Completed				04/17/24	C/A	SW3546	
Soil Extraction for PCB	Completed				04/20/24	H/U	SW3546	
Soil Extraction for Pesticides	Completed				04/20/24	H/U	SW3546	
Soil Extraction for SVOA	Completed				04/20/24	J/H/P/E	SW3546	
TCLP Digestion Mercury	Completed				04/17/24	HL/HL	SW7470A	
TCLP Herbicides Extraction	Completed				04/24/24	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				04/16/24	HL	SW1311	
TCLP Extraction for Organics	Completed				04/16/24	HL	SW1311	
TCLP Pesticides Extraction	Completed				04/23/24	LB1/LB1	SW3510C	
TCLP Semi-Volatile Extraction	Completed				04/22/24	F/F	SW3510C	
TCLP Extraction Volatiles	Completed				04/17/24	AL	SW1311	
Total Metals Digest	Completed				04/17/24	J/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	6.0	mg/Kg	50	04/17/24	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	92		%	50	04/17/24	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	75	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1221	ND	75	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1232	ND	75	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1242	ND	75	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1248	ND	75	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1254	ND	75	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1260	ND	75	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1262	ND	75	ug/Kg	2	04/22/24	SC	SW8082A	
PCB-1268	ND	75	ug/Kg	2	04/22/24	SC	SW8082A	
QA/QC Surrogates								
% DCBP	57		%	2	04/22/24	SC	30 - 150 %	
% DCBP (Confirmation)	59		%	2	04/22/24	SC	30 - 150 %	
% TCMX	62		%	2	04/22/24	SC	30 - 150 %	
% TCMX (Confirmation)	61		%	2	04/22/24	SC	30 - 150 %	

Ver 1

Project ID: SEK002376 - PRESIDENT ST.
Client ID: SB15

Phoenix I.D.: CQ52801

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Pesticides - Soil								
4,4' -DDD	ND	2.3	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDE	ND	2.3	ug/Kg	2	04/23/24	AW	SW8081B	
4,4' -DDT	ND	2.3	ug/Kg	2	04/23/24	AW	SW8081B	
a-BHC	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
a-Chlordane	ND	3.8	ug/Kg	2	04/23/24	AW	SW8081B	
Aldrin	ND	3.8	ug/Kg	2	04/23/24	AW	SW8081B	
b-BHC	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
Chlordane	ND	38	ug/Kg	2	04/23/24	AW	SW8081B	
d-BHC	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
Dieldrin	ND	3.8	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan I	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan II	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endosulfan sulfate	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin aldehyde	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
Endrin ketone	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
g-BHC	ND	1.5	ug/Kg	2	04/23/24	AW	SW8081B	
g-Chlordane	ND	3.8	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
Heptachlor epoxide	ND	7.5	ug/Kg	2	04/23/24	AW	SW8081B	
Methoxychlor	ND	38	ug/Kg	2	04/23/24	AW	SW8081B	
Toxaphene	ND	150	ug/Kg	2	04/23/24	AW	SW8081B	
QA/QC Surrogates								
% DCBP	48		%	2	04/23/24	AW	30 - 150 %	
% DCBP (Confirmation)	47		%	2	04/23/24	AW	30 - 150 %	
% TCMX	55		%	2	04/23/24	AW	30 - 150 %	
% TCMX (Confirmation)	57		%	2	04/23/24	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	04/25/24	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	04/25/24	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	64		%	10	04/25/24	JRB	30 - 150 %	
% DCAA (Confirmation)	65		%	10	04/25/24	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	04/26/24	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	04/26/24	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	04/26/24	AW	SW8081B	

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52801
Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	04/26/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	04/26/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	04/26/24	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	63		%	10	04/26/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	62		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	77		%	10	04/26/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	78		%	10	04/26/24	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	04/19/24	JRB	SW-846 8015
QA/QC Surrogates							
% COD (surr)	80		%	5	04/19/24	JRB	50 - 150 %
% Terphenyl (surr)	97		%	5	04/19/24	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,1-Dichloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dibromoethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,2-Dichloropropane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
2-Hexanone	ND	22	ug/kg	1	04/17/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	22	ug/kg	1	04/17/24	JLI	SW8260D
Acetone	ND	43	ug/kg	1	04/17/24	JLI	SW8260D
Benzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Bromochloromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Bromodichloromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Bromoform	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Bromomethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Carbon Disulfide	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Carbon tetrachloride	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Chlorobenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Chloroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Chloroform	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Chloromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Cyclohexane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Dibromochloromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Dichlorodifluoromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Ethylbenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Isopropylbenzene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
m&p-Xylene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Methyl ethyl ketone	ND	26	ug/kg	1	04/17/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	8.6	ug/kg	1	04/17/24	JLI	SW8260D
Methylacetate	ND	3.4	ug/kg	1	04/17/24	JLI	SW8260D
Methylcyclohexane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Methylene chloride	ND	22	ug/kg	1	04/17/24	JLI	SW8260D
o-Xylene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Styrene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Tetrachloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Toluene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Total Xylenes	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Trichloroethene	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorofluoromethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
Vinyl chloride	ND	4.3	ug/kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	04/17/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	65	ug/kg	1	04/17/24	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
1,3-Dichloropropane	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
n-Butylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
n-Propylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
p-Isopropyltoluene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
sec-Butylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
tert-Butylbenzene	ND	4.3	ug/Kg	1	04/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/17/24	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/17/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	04/17/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	04/17/24	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260

Project ID: SEK002376 - PRESIDENT ST. Phoenix I.D.: CQ52801

Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2-Dichloroethane	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
1,4-Dichlorobenzene	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
Benzene	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
Carbon tetrachloride	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
Chlorobenzene	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
Chloroform	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
Methyl ethyl ketone	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
Tetrachloroethene	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
Trichloroethene	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
Vinyl chloride	ND	50	ug/L	10	04/19/24	HM	SW846 1311/8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	04/19/24	HM	70 - 130 %	
% Bromofluorobenzene (10x)	96		%	10	04/19/24	HM	70 - 130 %	
% Dibromofluoromethane (10x)	99		%	10	04/19/24	HM	70 - 130 %	
% Toluene-d8 (10x)	99		%	10	04/19/24	HM	70 - 130 %	
Volatile Library Search	Completed				04/17/24	JLI		
Semivolatiles								
1,1-Biphenyl	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrophenol	ND	600	ug/Kg	1	04/21/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylnaphthalene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitroaniline	ND	600	ug/Kg	1	04/21/24	MR	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	04/21/24	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	04/21/24	MR	SW8270E	
3-Nitroaniline	ND	600	ug/Kg	1	04/21/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	04/21/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitroaniline	ND	600	ug/Kg	1	04/21/24	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
Acenaphthylene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
Acetophenone	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	
Anthracene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Atrazine	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Benzaldehyde	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	04/21/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Caprolactam	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Carbazole	ND	380	ug/Kg	1	04/21/24	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	04/21/24	MR	SW8270E
Dibenzofuran	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-butylphthalate	ND	750	ug/Kg	1	04/21/24	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorobutadiene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	04/21/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	04/21/24	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	04/21/24	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Phenol	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	04/21/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	04/21/24	MR	30 - 130 %
% 2-Fluorophenol	63		%	1	04/21/24	MR	30 - 130 %
% Nitrobenzene-d5	60		%	1	04/21/24	MR	30 - 130 %
% Phenol-d5	66		%	1	04/21/24	MR	30 - 130 %
% Terphenyl-d14	64		%	1	04/21/24	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270

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Client ID: SB15

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylphenol (o-cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	04/23/24	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	1	04/23/24	MR	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	04/23/24	MR	30 - 130 %
% 2-Fluorophenol	57		%	1	04/23/24	MR	15 - 110 %
% Nitrobenzene-d5	70		%	1	04/23/24	MR	30 - 130 %
% Phenol-d5	53		%	1	04/23/24	MR	15 - 110 %
% Terphenyl-d14	78		%	1	04/23/24	MR	30 - 130 %
Semivolatile Library Search	Completed				04/22/24	MR	

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

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

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

Comments:

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

TPH Comment:
The sample chromatorgram exhibited non-DRO material outside the C10-C28 range.

Hexavalent Chromium:
This sample is in a reducing state.

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
April 29, 2024
Reviewed and Released by: Rashmi Makol, Project Manager

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB9

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52795

Sample wt/vol: 6.11 (g/mL) g Lab File ID: 0416_47.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 5 Date Analyzed: 04/17/24

GC Column: RTX-VMS ID: 0.18 mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

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.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB10

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52796

Sample wt/vol: 3.74 (g/mL) g Lab File ID: 0416_48.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 22 Date Analyzed: 04/17/24

GC Column: RTX-VMS ID: 0.18 mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

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.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB11

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52797

Sample wt/vol: 4.63 (g/mL) g Lab File ID: 0416_49.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 7 Date Analyzed: 04/17/24

GC Column: RTX-VMS ID: 0.18 mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

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.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB12

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water) SOIL Lab Sample ID: CQ52798

Sample wt/vol: 4.07 (g/mL) g Lab File ID: 0416_50.D

Level: (low/med) Low Date Received: 04/16/24

% Moisture: not dec. 7 Date Analyzed: 04/17/24

GC Column: RTX-VMS ID: 0.18 mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

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.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB13

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52799

Sample wt/vol: 4.09 (g/mL) g Lab File ID: 0416_51.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 15 Date Analyzed: 04/17/24

GC Column: RTX-VMS ID: 0.18 mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

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.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB14

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52800

Sample wt/vol: 5.31 (g/mL) g Lab File ID: 0416_46.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 8 Date Analyzed: 04/17/24

GC Column: RTX-VMS ID: 0.18 mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB15

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water) SOIL Lab Sample ID: CQ52801

Sample wt/vol: 6.63 (g/mL) g Lab File ID: 0416_52.D

Level: (low/med) Low Date Received: 04/16/24

% Moisture: not dec. 13 Date Analyzed: 04/17/24

GC Column: RTX-VMS ID: 0.18 mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

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.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB9

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52795

Sample wt/vol: 15.33 (g/mL) g Lab File ID: 0419_26.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 5 decanted:(Y/N) NA Date Extracted: 04/20/24

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/20/2024

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.234	1000	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.028	1100	JNC
007206-21-5	5-Octadecene, (E)-	7.139	670	JN
001599-67-3	1-Docosene	8.604	790	JN

FORM I SEMIVOA-TIC

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

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

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.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB10

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52796

Sample wt/vol: 15.44 (g/mL) g Lab File ID: 0419_28.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 22 decanted:(Y/N) NA Date Extracted: 04/20/24

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/20/2024

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.234	3800	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.028	1500	JNC
007206-21-5	5-Octadecene, (E)-	7.140	910	JN
018435-45-5	1-Nonadecene	8.604	1100	JN

FORM I SEMIVOA-TIC

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

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

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.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB11

Lab Name: Phoenix Environmental Labs | Client: AES-INC

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCQ5279

Matrix:(soil/water): SOIL | Lab Sample ID: CQ52797

Sample wt/vol: 15.26 (g/mL) g | Lab File ID: 0421_07.D

Level: (low/med): Low | Date Received: 04/16/24

% Moisture: not dec. 7 | decanted:(Y/N) NA | Date Extracted: 04/21/24

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 4/21/2024

Conc. Extract Volume: 1000 (uL) | Dilution Factor 1

Injection Volume: 1 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.931	350	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.591	1300	JNC
000112-88-9	1-Octadecene	6.684	880	JN
001599-67-3	1-Docosene	8.100	980	JN

FORM I SEMIVOA-TIC

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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB12

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52798

Sample wt/vol: 15.25 (g/mL) g Lab File ID: 0421_10.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 7 decanted:(Y/N) NA Date Extracted: 04/21/24

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/21/2024

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.937	360	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.591	1000	JNC
000112-88-9	1-Octadecene	6.684	620	JN
015594-90-8	1-Heneicosanol	8.100	640	JN

FORM I SEMIVOA-TIC

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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB13

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52799

Sample wt/vol: 15.1 (g/mL) g Lab File ID: 0421_11.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 15 decanted:(Y/N) NA Date Extracted: 04/21/24

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/21/2024

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.937	380	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.591	1200	JNC
1000130-97-9	E-15-Heptadecenal	6.684	780	JN
000506-51-4	n-Tetracosanol-1	8.100	920	JN

FORM I SEMIVOA-TIC

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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB14

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52800

Sample wt/vol: 15.15 (g/mL) g Lab File ID: 0421_12.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 8 decanted:(Y/N) NA Date Extracted: 04/21/24

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/21/2024

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.931	430	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.591	1100	JNC
1000130-97-9	E-15-Heptadecenal	6.684	650	JN
001599-67-3	1-Docosene	8.100	690	JN

FORM I SEMIVOA-TIC

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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SB15

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCQ5279

Matrix:(soil/water): SOIL Lab Sample ID: CQ52801

Sample wt/vol: 15.31 (g/mL) g Lab File ID: 0421_15.D

Level: (low/med): Low Date Received: 04/16/24

% Moisture: not dec. 13 decanted:(Y/N) NA Date Extracted: 04/21/24

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/21/2024

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1.937	340	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.591	1100	JNC
1000130-97-9	E-15-Heptadecenal	6.684	730	JN
001599-67-3	1-Docosene	8.100	790	JN

FORM I SEMIVOA-TIC

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

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

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.

Environmental Laboratories, Inc.
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NY # 11301

QA/QC Report

April 29, 2024

QA/QC Data

SDG I.D.: GCQ52795

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 727882 (mg/kg), QC Sample No: CQ53921 40X (CQ52800, CQ52801)														
Chromium, Hexavalent - Soil														
Chromium, Hexavalent	BRL	0.40	<0.45	<0.43	NC	91.6						85 - 115	30	
Chromium, Hexavalent (Ins)						93.0			86.6			85 - 115	30	
Chromium, Hexavalent (Sol)						90.6			17.5			85 - 115	30	m
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.														
QA/QC Batch 727626 (mg/kg), QC Sample No: CQ55305 40X (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799)														
Chromium, Hexavalent - Soil														
Chromium, Hexavalent	BRL	0.40	<0.40	<0.37	NC	95.4						85 - 115	30	
Chromium, Hexavalent (Ins)						96.9			107			85 - 115	30	
Chromium, Hexavalent (Sol)						96.3			80.7			85 - 115	30	m
QA/QC Batch 727169 (mg/kg), QC Sample No: CQ51669 2X (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799)														
Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	94.7	92.5	2.4	106	89.5	16.9	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 727177 (mg/L), QC Sample No: CQ52868 (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	97.9			101			80 - 120	20	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 727383 (mg/kg), QC Sample No: CQ53029 2X (CQ52800, CQ52801)														
Mercury - Soil	BRL	0.02	0.04	0.05	NC	100	109	8.6	101	89.0	12.6	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 727249 (mg/kg), QC Sample No: CQ52310 (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)														
ICP Metals - Soil														
Aluminum	BRL	5.0	7720	5430	34.8	76.3	77.8	1.9	NC			75 - 125	35	
Antimony	BRL	3.3	<3.5	<3.6	NC	90.1	93.4	3.6	92.4			75 - 125	35	
Arsenic	BRL	0.67	3.78	2.56	NC	86.3	83.8	2.9	95.6			75 - 125	35	
Barium	BRL	0.33	48.3	34.3	33.9	84.2	84.2	0.0	103			75 - 125	35	
Beryllium	BRL	0.27	0.35	<0.28	NC	90.5	90.3	0.2	100			75 - 125	35	
Cadmium	BRL	0.33	<0.35	<0.36	NC	85.6	84.7	1.1	99.7			75 - 125	35	
Calcium	BRL	5.0	2140	1490	35.8	86.5	84.5	2.3	NC			75 - 125	35	r
Chromium	BRL	0.33	13.8	27.7	67.0	87.9	89.0	1.2	101			75 - 125	35	r
Cobalt	BRL	0.33	6.93	5.05	31.4	86.2	85.7	0.6	101			75 - 125	35	
Copper	BRL	0.67	12.8	7.43	53.1	84.3	84.4	0.1	101			75 - 125	35	r
Iron	BRL	5.0	14300	10500	30.6	83.3	80.5	3.4	NC			75 - 125	35	
Lead	BRL	0.33	3.64	2.90	22.6	83.4	81.1	2.8	99.9			75 - 125	35	
Magnesium	BRL	5.0	3010	2280	27.6	81.9	80.6	1.6	NC			75 - 125	35	

QA/QC Data

SDG I.D.: GCQ52795

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Manganese	BRL	0.33	363	421	14.8	80.6	80.1	0.6	81.9			75 - 125	35	
Nickel	BRL	0.33	9.65	6.63	37.1	87.5	87.6	0.1	99.8			75 - 125	35	r
Potassium	BRL	5.0	2180	1420	42.2	77.3	77.4	0.1	114			75 - 125	35	r
Selenium	BRL	1.3	<1.4	<1.4	NC	83.5	80.6	3.5	86.7			75 - 125	35	
Silver	BRL	0.33	<0.35	<0.36	NC	90.0	88.5	1.7	101			75 - 125	35	
Sodium	BRL	5.0	164	107	42.1	78.6	77.5	1.4	>130			75 - 125	35	m,r
Thallium	BRL	3.0	<3.2	<3.2	NC	90.2	88.2	2.2	100			75 - 125	35	
Vanadium	BRL	0.33	22.3	14.4	43.1	84.9	84.9	0.0	102			75 - 125	35	r
Zinc	BRL	0.67	27.3	29.2	6.70	82.8	83.1	0.4	95.4			75 - 125	35	

Comment:

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

QA/QC Batch 727173 (mg/L), QC Sample No: CQ52760 (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	<0.10	<0.10	NC	113	105	7.3	99.6			80 - 120	20	
Barium	BRL	0.10	0.73	0.89	19.8	102	96.7	5.3	96.8			80 - 120	20	
Cadmium	BRL	0.050	<0.050	<0.050	NC	107	103	3.8	103			80 - 120	20	
Chromium	BRL	0.10	<0.10	<0.10	NC	107	99.7	7.1	100			80 - 120	20	
Lead	BRL	0.10	0.11	0.14	NC	109	103	5.7	101			80 - 120	20	
Selenium	BRL	0.10	<0.10	<0.10	NC	119	112	6.1	106			80 - 120	20	
Silver	BRL	0.10	<0.10	<0.10	NC	107	99.1	7.7	97.1			80 - 120	20	

Comment:

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

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

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NY # 11301

QA/QC Report

April 29, 2024

QA/QC Data

SDG I.D.: GCQ52795

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 727892 (mg/Kg), QC Sample No: CQ51164 50X (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.56	<0.56	NC	101			101			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 727649 (mg/Kg), QC Sample No: CQ51663 5X (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)													
Reactivity Cyanide	BRL	5	<5	<5.2	NC	97.0						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	90.8						80 - 120	30
QA/QC Batch 727720 (Degree F), QC Sample No: CQ50166 (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)													
Flash Point			>200	>200	NC	101						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 727152 (PH), QC Sample No: CQ52768 (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)													
pH			7.44	7.40	0.50	101						85 - 115	20
QA/QC Batch 727153 (mV), QC Sample No: CQ52768 (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)													
Redox Potential			238	236	NC							75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													

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NY # 11301

QA/QC Report

April 29, 2024

QA/QC Data

SDG I.D.: GCQ52795

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 727316 (mg/Kg), QC Sample No: CQ52795 (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum HC	ND	50	63	67	6.2	52	53	1.9	30 - 130	30	
% COD (surr)	73	%	98	116	16.8	74	86	15.0	50 - 150	30	
% Terphenyl (surr)	77	%	94	102	8.2	88	93	5.5	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 727496 (mg/Kg), QC Sample No: CQ52307 50X (CQ52795 (50X) , CQ52796 (50X) , CQ52797 (50X) , CQ52798 (50X) , CQ52799 (50X) , CQ52800 (50X) , CQ52801 (50X))											
Gasoline Range Hydrocarbons (C6C10) - Soil											
GRO (C6-C10)	ND	5.0	95	95	0.0	94	94	0.0	70 - 130	30	
% 2,5-Dibromotoluene (FID)	90	%	81	89	9.4	86	84	2.4	70 - 130	30	
QA/QC Batch 727637 (ug/L), QC Sample No: CQ51639 10X (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799)											
TCLP Herbicides											
2,4,5-TP (Silvex)	ND	50	93	102	9.2	92			40 - 140	20	
2,4-D	ND	100	88	100	12.8	95			40 - 140	20	
% DCAA	74	%	72	79	9.3	71			30 - 150	20	
% DCAA (Confirmation)	66	%	69	75	8.3	67			30 - 150	20	
Comment:											
Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.											
QA/QC Batch 728293 (ug/L), QC Sample No: CQ55659 10X (CQ52800, CQ52801)											
Chlorinated Herbicides											
2,4,5-TP (Silvex)	ND	2.5	67	95	34.6				40 - 140	20	r
2,4-D	ND	5.0	69	94	30.7				40 - 140	20	r
% DCAA (Surrogate Rec)	118	%	99	138	32.9				30 - 150	20	r
% DCAA (Surrogate Rec) (Confirm	133	%	106	145	31.1				30 - 150	20	r
Comment:											
Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.											
QA/QC Batch 727839 (ug/Kg), QC Sample No: CQ51675 2X (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	33	65	69	6.0	92	78	16.5	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	66	72	8.7	93	82	12.6	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	

QA/QC Data

SDG I.D.: GCQ52795

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	72	%	70	73	4.2	99	80	21.2	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	70	%	68	72	5.7	103	75	31.5	30 - 150	30	r
% TCMX (Surrogate Rec)	69	%	65	71	8.8	88	76	14.6	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	69	%	66	71	7.3	97	77	23.0	30 - 150	30	
QA/QC Batch 727840 (ug/Kg), QC Sample No: CQ51675 2X (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	52	61	15.9	72	72	0.0	40 - 140	30	
4,4' -DDE	ND	1.7	56	58	3.5	68	68	0.0	40 - 140	30	
4,4' -DDT	ND	1.7	56	60	6.9	70	69	1.4	40 - 140	30	
a-BHC	ND	1.0	63	63	0.0	75	72	4.1	40 - 140	30	
a-Chlordane	ND	3.3	64	64	0.0	73	71	2.8	40 - 140	30	
Aldrin	ND	1.0	67	67	0.0	78	75	3.9	40 - 140	30	
b-BHC	ND	1.0	62	62	0.0	82	71	14.4	40 - 140	30	
Chlordane	ND	33	67	67	0.0	77	74	4.0	40 - 140	30	
d-BHC	ND	3.3	47	49	4.2	73	65	11.6	40 - 140	30	
Dieldrin	ND	1.0	66	67	1.5	76	74	2.7	40 - 140	30	
Endosulfan I	ND	3.3	75	78	3.9	87	84	3.5	40 - 140	30	
Endosulfan II	ND	3.3	66	72	8.7	82	80	2.5	40 - 140	30	
Endosulfan sulfate	ND	3.3	57	58	1.7	68	67	1.5	40 - 140	30	
Endrin	ND	3.3	50	53	5.8	62	64	3.2	40 - 140	30	
Endrin aldehyde	ND	3.3	69	73	5.6	75	73	2.7	40 - 140	30	
Endrin ketone	ND	3.3	64	66	3.1	74	72	2.7	40 - 140	30	
g-BHC	ND	1.0	59	58	1.7	71	68	4.3	40 - 140	30	
g-Chlordane	ND	3.3	67	67	0.0	77	74	4.0	40 - 140	30	
Heptachlor	ND	3.3	65	63	3.1	76	71	6.8	40 - 140	30	
Heptachlor epoxide	ND	3.3	64	66	3.1	75	72	4.1	40 - 140	30	
Methoxychlor	ND	3.3	44	42	4.7	57	61	6.8	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	52	%	48	49	2.1	56	55	1.8	30 - 150	30	
% DCBP (Confirmation)	85	%	81	81	0.0	91	89	2.2	30 - 150	30	
% TCMX	69	%	65	64	1.6	73	70	4.2	30 - 150	30	
% TCMX (Confirmation)	70	%	66	64	3.1	76	72	5.4	30 - 150	30	
QA/QC Batch 728144 (ug/L), QC Sample No: CQ55564 10X (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)											
Pesticides											
4,4' -DDD	ND	0.25	36	80	75.9	82			40 - 140	20	l,r
4,4' -DDE	ND	0.25	39	79	67.8	79			40 - 140	20	l,r
4,4' -DDT	ND	0.25	35	72	69.2	79			40 - 140	20	l,r
a-BHC	ND	0.15	36	72	66.7	68			40 - 140	20	l,r
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20	
Aldrin	ND	0.15	37	72	64.2	70			40 - 140	20	l,r
b-BHC	ND	0.15	42	81	63.4	83			40 - 140	20	r
Chlordane	ND	5.0	39	77	65.5	79			40 - 140	20	l,r
d-BHC	ND	0.50	38	75	65.5	70			40 - 140	20	l,r
Dieldrin	ND	0.15	38	84	75.4	85			40 - 140	20	l,r
Endosulfan I	ND	0.50	43	87	67.7	79			40 - 140	20	r
Endosulfan II	ND	0.50	42	85	67.7	86			40 - 140	20	r
Endosulfan sulfate	ND	0.50	37	73	65.5	80			40 - 140	20	l,r
Endrin	ND	0.50	39	81	70.0	81			40 - 140	20	l,r
Endrin aldehyde	ND	0.50	37	68	59.0	72			40 - 140	20	l,r

QA/QC Data

SDG I.D.: GCQ52795

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
g-BHC	ND	0.15	42	82	64.5	76			40 - 140	20	r
Heptachlor	ND	0.50	35	69	65.4	63			40 - 140	20	l,r
Heptachlor epoxide	ND	0.50	47	84	56.5	84			40 - 140	20	r
Methoxychlor	ND	0.50	35	56	46.2	74			40 - 140	20	l,r
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20	
% DCBP	71	%	41	70	52.3	76			30 - 150	20	r
% DCBP (Confirmation)	79	%	41	78	62.2	64			30 - 150	20	r
% TCMX	66	%	37	67	57.7	70			30 - 150	20	r
% TCMX (Confirmation)	69	%	38	69	57.9	57			30 - 150	20	r

QA/QC Batch 727979 (ug/L), QC Sample No: CQ51657 (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	47	50	6.2	49			40 - 140	20	
2,4,5-Trichlorophenol	ND	17	70	74	5.6	73			40 - 140	20	
2,4,6-Trichlorophenol	ND	17	58	61	5.0	61			30 - 130	20	
2,4-Dinitrotoluene	ND	58	68	71	4.3	72			30 - 130	20	
2-Methylphenol (o-cresol)	ND	17	62	58	6.7	60			40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	17	67	59	12.7	61			30 - 130	20	
Hexachlorobenzene	ND	58	63	75	17.4	71			40 - 140	20	
Hexachlorobutadiene	ND	58	57	57	0.0	59			40 - 140	20	
Hexachloroethane	ND	58	52	53	1.9	52			40 - 140	20	
Nitrobenzene	ND	58	57	59	3.4	61			40 - 140	20	
Pentachlorophenol	ND	58	45	44	2.2	48			30 - 130	20	
Pyridine	ND	83	63	56	11.8	58			40 - 140	20	
% 2,4,6-Tribromophenol	35	%	66	70	5.9	66			15 - 110	20	
% 2-Fluorobiphenyl	28	%	55	56	1.8	57			30 - 130	20	s
% 2-Fluorophenol	32	%	56	51	9.3	50			15 - 110	20	
% Nitrobenzene-d5	31	%	58	57	1.7	58			30 - 130	20	
% Phenol-d5	35	%	53	46	14.1	46			15 - 110	20	
% Terphenyl-d14	42	%	61	60	1.7	59			30 - 130	20	

Comment:

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

QA/QC Batch 727757 (ug/kg), QC Sample No: CQ52044 (CQ52795, CQ52796)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	67	63	6.2	65	63	3.1	40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230	73	68	7.1	69	67	2.9	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	60	59	1.7	59	59	0.0	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	89	85	4.6	81	76	6.4	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	87	80	8.4	81	78	3.8	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	86	82	4.8	83	79	4.9	30 - 130	30	
2,4-Dichlorophenol	ND	130	85	80	6.1	80	78	2.5	30 - 130	30	
2,4-Dimethylphenol	ND	230	78	73	6.6	73	70	4.2	30 - 130	30	
2,4-Dinitrophenol	ND	230	48	41	15.7	22	19	14.6	30 - 130	30	m
2,4-Dinitrotoluene	ND	130	85	83	2.4	84	79	6.1	30 - 130	30	
2,6-Dinitrotoluene	ND	130	85	82	3.6	84	81	3.6	40 - 140	30	
2-Chloronaphthalene	ND	230	72	69	4.3	70	67	4.4	40 - 140	30	
2-Chlorophenol	ND	230	76	73	4.0	71	71	0.0	30 - 130	30	
2-Methylnaphthalene	ND	230	76	72	5.4	73	71	2.8	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	74	72	2.7	70	70	0.0	40 - 140	30	
2-Nitroaniline	ND	330	102	101	1.0	99	95	4.1	40 - 140	30	
2-Nitrophenol	ND	230	72	69	4.3	73	71	2.8	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	77	73	5.3	72	73	1.4	30 - 130	30	

QA/QC Data

SDG I.D.: GCQ52795

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
3,3'-Dichlorobenzidine	ND	130	112	106	5.5	107	98	8.8	40 - 140	30	
3-Nitroaniline	ND	330	94	91	3.2	93	88	5.5	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	84	78	7.4	60	53	12.4	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	84	79	6.1	82	76	7.6	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	85	80	6.1	82	78	5.0	30 - 130	30	
4-Chloroaniline	ND	230	73	70	4.2	70	69	1.4	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	74	71	4.1	72	69	4.3	40 - 140	30	
4-Nitroaniline	ND	230	71	70	1.4	73	69	5.6	40 - 140	30	
4-Nitrophenol	ND	230	72	69	4.3	67	62	7.8	30 - 130	30	
Acenaphthene	ND	230	68	64	6.1	66	64	3.1	30 - 130	30	
Acenaphthylene	ND	130	64	60	6.5	62	60	3.3	40 - 140	30	
Acetophenone	ND	230	63	61	3.2	60	60	0.0	40 - 140	30	
Anthracene	ND	230	75	71	5.5	74	69	7.0	40 - 140	30	
Atrazine	ND	130	77	74	4.0	76	72	5.4	40 - 140	30	
Benz(a)anthracene	ND	230	78	74	5.3	77	71	8.1	40 - 140	30	
Benzaldehyde	ND	230	35	32	9.0	34	33	3.0	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	87	82	5.9	84	78	7.4	40 - 140	30	
Benzo(b)fluoranthene	ND	160	78	74	5.3	76	71	6.8	40 - 140	30	
Benzo(ghi)perylene	ND	230	84	81	3.6	82	76	7.6	40 - 140	30	
Benzo(k)fluoranthene	ND	230	77	72	6.7	75	70	6.9	40 - 140	30	
Benzyl butyl phthalate	ND	230	78	74	5.3	77	72	6.7	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	72	69	4.3	70	68	2.9	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	67	65	3.0	64	64	0.0	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	77	73	5.3	77	71	8.1	40 - 140	30	
Caprolactam	ND	230	89	85	4.6	83	78	6.2	40 - 140	30	
Carbazole	ND	230	78	74	5.3	76	71	6.8	40 - 140	30	
Chrysene	ND	230	78	74	5.3	76	70	8.2	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	84	79	6.1	80	75	6.5	40 - 140	30	
Dibenzofuran	ND	230	71	68	4.3	68	66	3.0	40 - 140	30	
Diethyl phthalate	ND	230	75	72	4.1	72	69	4.3	40 - 140	30	
Dimethylphthalate	ND	230	77	73	5.3	76	71	6.8	40 - 140	30	
Di-n-butylphthalate	ND	670	81	77	5.1	79	74	6.5	40 - 140	30	
Di-n-octylphthalate	ND	230	80	77	3.8	79	74	6.5	40 - 140	30	
Fluoranthene	ND	230	77	75	2.6	76	70	8.2	40 - 140	30	
Fluorene	ND	230	74	71	4.1	71	69	2.9	40 - 140	30	
Hexachlorobenzene	ND	130	69	65	6.0	68	65	4.5	40 - 140	30	
Hexachlorobutadiene	ND	230	68	65	4.5	64	63	1.6	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	50	46	8.3	51	49	4.0	40 - 140	30	
Hexachloroethane	ND	130	61	59	3.3	58	57	1.7	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	82	79	3.7	80	75	6.5	40 - 140	30	
Isophorone	ND	130	64	61	4.8	63	61	3.2	40 - 140	30	
Naphthalene	ND	230	68	64	6.1	65	63	3.1	40 - 140	30	
Nitrobenzene	ND	130	66	66	0.0	65	65	0.0	40 - 140	30	
N-Nitrosodimethylamine	ND	230	67	64	4.6	63	63	0.0	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	66	66	0.0	65	64	1.6	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	75	72	4.1	73	69	5.6	40 - 140	30	
Pentachlorophenol	ND	230	68	63	7.6	54	49	9.7	30 - 130	30	
Phenanthrene	ND	130	73	69	5.6	71	67	5.8	40 - 140	30	
Phenol	ND	230	84	82	2.4	81	80	1.2	30 - 130	30	
Pyrene	ND	230	76	73	4.0	74	70	5.6	30 - 130	30	
% 2,4,6-Tribromophenol	77	%	72	68	5.7	73	67	8.6	30 - 130	30	
% 2-Fluorobiphenyl	70	%	64	61	4.8	64	62	3.2	30 - 130	30	
% 2-Fluorophenol	72	%	68	66	3.0	65	64	1.6	30 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Nitrobenzene-d5	70	%	62	61	1.6	61	61	0.0	30 - 130	30	
% Phenol-d5	71	%	67	66	1.5	65	65	0.0	30 - 130	30	
% Terphenyl-d14	77	%	69	67	2.9	68	64	6.1	30 - 130	30	

Comment:

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

QA/QC Batch 727851 (ug/kg), QC Sample No: CQ52797 (CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	60	61	1.7	54	59	8.8	40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230	59	60	1.7	54	60	10.5	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	52	49	5.9	42	52	21.3	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	66	69	4.4	64	63	1.6	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	71	73	2.8	65	68	4.5	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	71	74	4.1	66	70	5.9	30 - 130	30	
2,4-Dichlorophenol	ND	130	66	70	5.9	58	65	11.4	30 - 130	30	
2,4-Dimethylphenol	ND	230	65	69	6.0	59	64	8.1	30 - 130	30	
2,4-Dinitrophenol	ND	230	61	22	94.0	69	69	0.0	30 - 130	30	l,r
2,4-Dinitrotoluene	ND	130	71	77	8.1	70	70	0.0	30 - 130	30	
2,6-Dinitrotoluene	ND	130	69	75	8.3	67	69	2.9	40 - 140	30	
2-Chloronaphthalene	ND	230	65	67	3.0	58	64	9.8	40 - 140	30	
2-Chlorophenol	ND	230	62	64	3.2	51	62	19.5	30 - 130	30	
2-Methylnaphthalene	ND	230	64	64	0.0	57	64	11.6	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	61	64	4.8	54	60	10.5	40 - 140	30	
2-Nitroaniline	ND	330	113	122	7.7	110	109	0.9	40 - 140	30	
2-Nitrophenol	ND	230	64	68	6.1	57	65	13.1	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	70	73	4.2	60	68	12.5	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	71	75	5.5	72	71	1.4	40 - 140	30	
3-Nitroaniline	ND	330	81	91	11.6	78	78	0.0	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	69	55	22.6	73	72	1.4	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	71	74	4.1	68	70	2.9	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	72	76	5.4	64	69	7.5	30 - 130	30	
4-Chloroaniline	ND	230	68	74	8.5	62	68	9.2	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	68	72	5.7	64	67	4.6	40 - 140	30	
4-Nitroaniline	ND	230	68	73	7.1	64	66	3.1	40 - 140	30	
4-Nitrophenol	ND	230	70	73	4.2	90	66	30.8	30 - 130	30	r
Acenaphthene	ND	230	64	65	1.6	59	62	5.0	30 - 130	30	
Acenaphthylene	ND	130	58	61	5.0	53	57	7.3	40 - 140	30	
Acetophenone	ND	230	60	60	0.0	51	60	16.2	40 - 140	30	
Anthracene	ND	230	67	72	7.2	64	68	6.1	40 - 140	30	
Atrazine	ND	130	67	75	11.3	66	68	3.0	40 - 140	30	
Benz(a)anthracene	ND	230	68	73	7.1	68	67	1.5	40 - 140	30	
Benzaldehyde	ND	230	101	80	23.2	77	98	24.0	40 - 140	30	
Benzo(a)pyrene	ND	130	72	79	9.3	73	73	0.0	40 - 140	30	
Benzo(b)fluoranthene	ND	160	68	74	8.5	68	67	1.5	40 - 140	30	
Benzo(ghi)perylene	ND	230	69	73	5.6	68	68	0.0	40 - 140	30	
Benzo(k)fluoranthene	ND	230	70	73	4.2	69	69	0.0	40 - 140	30	
Benzyl butyl phthalate	ND	230	75	81	7.7	74	73	1.4	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	65	68	4.5	56	65	14.9	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	59	59	0.0	49	61	21.8	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	74	81	9.0	73	71	2.8	40 - 140	30	
Caprolactam	ND	230	66	68	3.0	65	63	3.1	40 - 140	30	
Carbazole	ND	230	68	74	8.5	66	66	0.0	40 - 140	30	

QA/QC Data

SDG I.D.: GCQ52795

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chrysene	ND	230	68	74	8.5	67	66	1.5	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	68	73	7.1	67	68	1.5	40 - 140	30	
Dibenzofuran	ND	230	64	67	4.6	58	63	8.3	40 - 140	30	
Diethyl phthalate	ND	230	71	76	6.8	68	68	0.0	40 - 140	30	
Dimethylphthalate	ND	230	71	76	6.8	66	69	4.4	40 - 140	30	
Di-n-butylphthalate	ND	670	73	80	9.2	72	72	0.0	40 - 140	30	
Di-n-octylphthalate	ND	230	70	76	8.2	69	69	0.0	40 - 140	30	
Fluoranthene	ND	230	67	74	9.9	67	67	0.0	40 - 140	30	
Fluorene	ND	230	68	71	4.3	63	67	6.2	40 - 140	30	
Hexachlorobenzene	ND	130	68	72	5.7	64	67	4.6	40 - 140	30	
Hexachlorobutadiene	ND	230	56	52	7.4	47	59	22.6	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	45	48	6.5	43	46	6.7	40 - 140	30	
Hexachloroethane	ND	130	52	44	16.7	43	55	24.5	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	73	76	4.0	72	72	0.0	40 - 140	30	
Isophorone	ND	130	59	62	5.0	53	59	10.7	40 - 140	30	
Naphthalene	ND	230	57	57	0.0	49	58	16.8	40 - 140	30	
Nitrobenzene	ND	130	61	61	0.0	52	62	17.5	40 - 140	30	
N-Nitrosodimethylamine	ND	230	59	59	0.0	46	61	28.0	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	63	65	3.1	56	63	11.8	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	71	74	4.1	68	68	0.0	40 - 140	30	
Pentachlorophenol	ND	230	75	79	5.2	70	73	4.2	30 - 130	30	
Phenanthrene	ND	130	66	71	7.3	63	65	3.1	40 - 140	30	
Phenol	ND	230	74	78	5.3	63	72	13.3	30 - 130	30	
Pyrene	ND	230	67	75	11.3	67	68	1.5	30 - 130	30	
% 2,4,6-Tribromophenol	76	%	71	73	2.8	66	67	1.5	30 - 130	30	
% 2-Fluorobiphenyl	59	%	61	61	0.0	53	59	10.7	30 - 130	30	
% 2-Fluorophenol	59	%	60	62	3.3	49	59	18.5	30 - 130	30	
% Nitrobenzene-d5	56	%	58	57	1.7	48	57	17.1	30 - 130	30	
% Phenol-d5	60	%	63	65	3.1	53	61	14.0	30 - 130	30	
% Terphenyl-d14	70	%	62	70	12.1	62	59	5.0	30 - 130	30	

Comment:

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

QA/QC Batch 727646 (ug/L), QC Sample No: CQ51652 (CQ52795 (10X) , CQ52796 (10X) , CQ52797 (10X) , CQ52798 (10X) , CQ52799 (10X) , CQ52800 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	103	100	3.0	115	115	0.0	70 - 130	30	
1,2-Dichloroethane	ND	0.60	107	106	0.9	111	112	0.9	70 - 130	30	
Benzene	ND	0.70	108	105	2.8	116	116	0.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	127	108	16.2	120	118	1.7	70 - 130	30	
Chlorobenzene	ND	1.0	105	104	1.0	113	112	0.9	70 - 130	30	
Chloroform	ND	5.0	108	106	1.9	117	118	0.9	70 - 130	30	
Methyl ethyl ketone	ND	5.0	111	110	0.9	110	112	1.8	70 - 130	30	
Tetrachloroethene	ND	1.0	107	106	0.9	117	116	0.9	70 - 130	30	
Trichloroethene	ND	5.0	104	104	0.0	114	114	0.0	70 - 130	30	
Vinyl chloride	ND	5.0	132	126	4.7	141	145	2.8	70 - 130	30	l,m
% 1,2-dichlorobenzene-d4	100	%	100	99	1.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	97	%	103	103	0.0	103	103	0.0	70 - 130	30	
% Dibromofluoromethane	99	%	101	99	2.0	100	98	2.0	70 - 130	30	
% Toluene-d8	97	%	101	102	1.0	101	101	0.0	70 - 130	30	

Comment:

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

QA/QC Data

SDG I.D.: GCQ52795

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 727236 (ug/kg), QC Sample No: CQ52800 (CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801)											
Volatiles - Soil (Low Level)											
1,1,1-Trichloroethane	ND	5.0	95	96	1.0	112	93	18.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	99	98	1.0	91	91	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	98	99	1.0	98	96	2.1	70 - 130	30	
1,1-Dichloroethane	ND	5.0	111	92	18.7	111	110	0.9	70 - 130	30	
1,1-Dichloroethene	ND	5.0	98	96	2.1	98	96	2.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	106	105	0.9	87	86	1.2	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	94	94	0.0	90	88	2.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	107	107	0.0	86	87	1.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	102	102	0.0	94	94	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	114	113	0.9	94	98	4.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	104	104	0.0	98	98	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	100	99	1.0	90	91	1.1	70 - 130	30	
1,2-Dichloroethane	ND	5.0	92	94	2.2	92	91	1.1	70 - 130	30	
1,2-Dichloropropane	ND	5.0	97	98	1.0	97	96	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	102	102	0.0	95	95	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	100	100	0.0	90	91	1.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	98	99	1.0	94	94	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	99	99	0.0	88	89	1.1	70 - 130	30	
1,4-dioxane	ND	100	95	89	6.5	113	108	4.5	70 - 130	30	
2-Hexanone	ND	25	94	94	0.0	83	80	3.7	70 - 130	30	
4-Methyl-2-pentanone	ND	25	97	97	0.0	94	89	5.5	70 - 130	30	
Acetone	ND	10	75	73	2.7	67	64	4.6	70 - 130	30	m
Benzene	ND	1.0	98	99	1.0	96	93	3.2	70 - 130	30	
Bromochloromethane	ND	5.0	95	95	0.0	109	93	15.8	70 - 130	30	
Bromodichloromethane	ND	5.0	100	101	1.0	98	96	2.1	70 - 130	30	
Bromoform	ND	5.0	107	106	0.9	95	96	1.0	70 - 130	30	
Bromomethane	ND	5.0	90	90	0.0	91	89	2.2	70 - 130	30	
Carbon Disulfide	ND	5.0	103	102	1.0	97	99	2.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	98	99	1.0	110	94	15.7	70 - 130	30	
Chlorobenzene	ND	5.0	100	99	1.0	93	93	0.0	70 - 130	30	
Chloroethane	ND	5.0	99	98	1.0	99	99	0.0	70 - 130	30	
Chloroform	ND	5.0	93	92	1.1	110	91	18.9	70 - 130	30	
Chloromethane	ND	5.0	103	101	2.0	99	97	2.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	94	97	3.1	108	94	13.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	106	107	0.9	101	99	2.0	70 - 130	30	
Cyclohexane	ND	5.0	100	100	0.0	120	96	22.2	70 - 130	30	
Dibromochloromethane	ND	3.0	106	107	0.9	99	100	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	92	90	2.2	86	85	1.2	70 - 130	30	
Ethylbenzene	ND	1.0	101	100	1.0	95	95	0.0	70 - 130	30	
Isopropylbenzene	ND	1.0	105	105	0.0	99	99	0.0	70 - 130	30	
m&p-Xylene	ND	2.0	101	102	1.0	95	95	0.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	80	80	0.0	90	72	22.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	91	95	4.3	98	97	1.0	70 - 130	30	
Methylacetate	ND	5.0	86	84	2.4	94	93	1.1	70 - 130	30	
Methylcyclohexane	ND	5.0	101	103	2.0	98	96	2.1	70 - 130	30	
Methylene chloride	ND	5.0	90	90	0.0	93	92	1.1	70 - 130	30	
n-Butylbenzene	ND	1.0	104	104	0.0	92	91	1.1	70 - 130	30	
n-Propylbenzene	ND	1.0	103	103	0.0	95	95	0.0	70 - 130	30	
o-Xylene	ND	2.0	104	105	1.0	99	99	0.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	106	105	0.9	96	96	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCQ52795

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
sec-Butylbenzene	ND	1.0	103	102	1.0	96	95	1.0	70 - 130	30	
Styrene	ND	5.0	103	104	1.0	97	96	1.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	104	104	0.0	99	98	1.0	70 - 130	30	
Tetrachloroethene	ND	5.0	106	106	0.0	101	100	1.0	70 - 130	30	
Toluene	ND	1.0	99	100	1.0	98	95	3.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	97	95	2.1	97	96	1.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	108	107	0.9	101	100	1.0	70 - 130	30	
Trichloroethene	ND	5.0	100	101	1.0	97	96	1.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	96	96	0.0	97	95	2.1	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	105	104	1.0	104	103	1.0	70 - 130	30	
Vinyl chloride	ND	5.0	123	116	5.9	112	114	1.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	101	99	2.0	99	100	1.0	70 - 130	30	
% Bromofluorobenzene	98	%	99	99	0.0	99	98	1.0	70 - 130	30	
% Dibromofluoromethane	97	%	98	99	1.0	111	100	10.4	70 - 130	30	
% Toluene-d8	97	%	99	100	1.0	103	100	3.0	70 - 130	30	

Comment:

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

QA/QC Batch 727645 (ug/L), QC Sample No: CQ52801 (CQ52801 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	101	95	6.1	108	114	5.4	70 - 130	30	
1,2-Dichloroethane	ND	0.60	107	104	2.8	111	111	0.0	70 - 130	30	
Benzene	ND	0.70	109	103	5.7	115	114	0.9	70 - 130	30	
Carbon tetrachloride	ND	5.0	123	118	4.1	110	114	3.6	70 - 130	30	
Chlorobenzene	ND	1.0	107	102	4.8	103	104	1.0	70 - 130	30	
Chloroform	ND	5.0	109	105	3.7	116	116	0.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	109	105	3.7	110	106	3.7	70 - 130	30	
Tetrachloroethene	ND	1.0	104	98	5.9	94	97	3.1	70 - 130	30	
Trichloroethene	ND	5.0	106	99	6.8	105	107	1.9	70 - 130	30	
Vinyl chloride	ND	5.0	129	119	8.1	141	145	2.8	70 - 130	30	m
% 1,2-dichlorobenzene-d4	99	%	99	101	2.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	97	%	104	103	1.0	104	103	1.0	70 - 130	30	
% Dibromofluoromethane	100	%	100	101	1.0	99	100	1.0	70 - 130	30	
% Toluene-d8	99	%	101	102	1.0	101	101	0.0	70 - 130	30	

Comment:

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

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
April 29, 2024

Monday, April 29, 2024

Criteria: NY: 375, 375COM, 375RS

State: NY

Sample Criteria Exceedances Report

GCQ52795 - AES-INC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ52796	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	2720	0.39	1000	1000	mg/Kg
CQ52796	PB-SM	Lead	NY / 375-6.8 Metals / Residential	2720	0.39	400	400	mg/Kg
CQ52796	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	2720	0.39	63	63	mg/Kg
CQ52796	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	21.6	0.10	5	5	mg/L
CQ52796	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	247	0.8	109	109	mg/Kg
CQ52798	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	91.0	0.7	50	50	mg/kg

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

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

April 29, 2024 SDG I.D.: GCQ52795

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

PCB Narration

AU-ECD3 04/22/24-1: CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CQ52795, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801
Preceding CC 422B013 - DCBP SURR 18%H (15%), PCB 1260 19%H (%)
Succeeding CC 422B026 - PCB 1260 16%H (%)
Samples: CQ52796
Preceding CC 422B026 - PCB 1260 16%H (%)
Succeeding CC 422B039 - PCB 1260 18%H (%)

PEST Narration

AU-ECD33 04/22/24-1: CQ52795, CQ52799, CQ52800, CQ52801

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CQ52795, CQ52799, CQ52800, CQ52801
Preceding CC 422B075 - Endosulfan II 26%L (20%), Methoxychlor 26%L (20%)
Succeeding CC 422B088 - Methoxychlor 23%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 04/22/24-1: CQ52796, CQ52797, CQ52798

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CQ52796, CQ52797, CQ52798
Preceding CC 422A060 - % DCBP 27%L (20%), Endosulfan II 24%L (20%), Endrin 41%L (20%), Endrin aldehyde 29%H (20%), Methoxychlor 45%L (20%)
Succeeding CC 422A073 - % DCBP 27%L (20%), Endrin 44%L (20%), Endrin aldehyde 35%H (20%), Methoxychlor 34%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

SVOA Narration

CHEM07 04/21/24-1: CQ52797, CQ52798, CQ52799, CQ52800, CQ52801

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.054 (0.1), Hexachlorobenzene 0.082 (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 0.058 (0.1), Hexachlorobenzene 0.083 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

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

CHEM19 04/22/24-2: CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

April 29, 2024 SDG I.D.: GCQ52795

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 0.089 (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 0.088 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

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

CHEM28 04/19/24-1: CQ52795, CQ52796

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: 2-Nitroaniline 32%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.082 (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

CHEM26 04/16/24-2: CQ52795, CQ52796, CQ52797, CQ52798, CQ52799, CQ52800, CQ52801

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 30% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 31%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

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

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

April 29, 2024

SDG I.D.: GCQ52795

The samples in this delivery group were received at 2.5°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐
Temp 2.5 °C Pg 1 of 1

PHOENIX Environmental Laboratories, Inc.

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

Contact Options:
☐ Phone:
☐ Fax: pendyenveng@optonline.net
☑ Email: empendergast@aol.com

Customer: AES
Address: 42 West Avenue
Patchogue, NY 11772.

Project: SEK002376- President St. Project P.O: 0947
Report to: AES
Invoice to: AES
QUOTE # :

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 4/15/24

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 **OIL**=Oil
B=Bulk **L**=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	TAL/TCL 30+NYadd	Full TCLP	RIC	TPH DRO/GRO	Hex Chromium	GL Amber 8 oz. [ ] w/H_2PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container (8)oz comp	GL Soil container (4)oz VOC gr	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] As is [ ] H_2SO_4	PL H_2SO_4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL NAOH 250ml	PL HNO_3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
52795	SB9	S	4.15.24	12:00		X	X	X	X	X				3	2	1							
52796	SB10	"	"	11:10		"	"	"	"	"				"	"	"							
52797	SB11	"	"	10:35		"	"	"	"	"				"	"	"							
52798	SB12	"	"	10:00		"	"	"	"	"				"	"	"							
52799	SB13	"	"	9:00		"	"	"	"	"				"	"	"							
52800	SB14	"	"	8:50		"	"	"	"	"				"	"	"							
52801	SB15	"	"	8:20		"	"	"	"	"				"	"	"							

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	4/16/24	1110
[signature]	[signature]	4/16/24	16:47

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
☑ Standard
* SURCHARGE APPLIES
7 DAY

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

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

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

State Samples Collected? NY

Comments, Special Requirements or Regulations:

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

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

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

PEL-111 Rev 1/2023