

# Field Sampling Summary Report

SOUTHERN BROOKLYN CROSSTOWN (B82) SELECT BUS SERVICE  
BROOKLYN, NY

NYCDDC PROJECT # HWK100SBC

Prepared for:



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

On behalf of:

Restani Construction Corp.  
4204 Berrian Boulevard  
Astoria, NY 11105

Prepared by:

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AES Project No. 0942

REVISION #2  
JUNE 26<sup>th</sup>, 2024

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## **1.0 INTRODUCTION**

American Environmental Solutions, Inc. (AES) of Patchogue, New York, has been contracted by Restani Construction Corp. (RCC) of Astoria, 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) Southern Brooklyn Crosstown (B82) Select Bus Service project (Project No. HWK100SBC) located in Brooklyn, New York. This FSSR documents field sampling activities performed by AES on May 24<sup>th</sup>, 2024.

### **1.1 Project Description**

The work area consists of roadways and street right of ways in the Spring Creek and Gravesend neighborhoods of Brooklyn. The work locations are shown on Figures 1a and 1b.

Scope of work to be performed includes construction of new bus lanes and bus stations, ADA compliant bus stops, safety improvements, concrete curb extensions and reconstruction of medians. Approximately 7,500 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 May 24<sup>th</sup>, 2024. Five (5) soil borings were advanced in the work areas to depths of 10 or 16 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 2.

## **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 samples collected contained metals and SVOCs. One sample (SB12) also contained pesticides. One sample (SB13) contained a concentration of lead exceeding the RCRA Hazardous Waste Characteristic Regulatory Level. There were no VOCs or PCBs detected in the samples. Total Petroleum Hydrocarbons (TPH) were detected in two samples (SB13 and SB14). There is no regulatory criteria available for TPH. Compound detections compared to applicable criteria are shown on Tables 1 and 2.

### **Comments:**

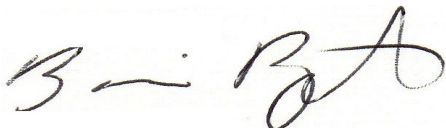
- A number of sampling locations (SB12 and SB14) contained compounds in concentrations exceeding NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (CUSCOs). Material containing compound concentrations exceeding CUSCOs are not suitable for reuse as backfill on-site and should be transported off-site for disposal at a permitted facility pursuant to federal, state and local regulations.
- A number of sampling locations (SB11 and 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 SB13 at a concentration of 9.5 mg/L. TCLP results are summarized in Table 2. Additionally, total lead was detected in SB13 in a concentration of 7410 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:

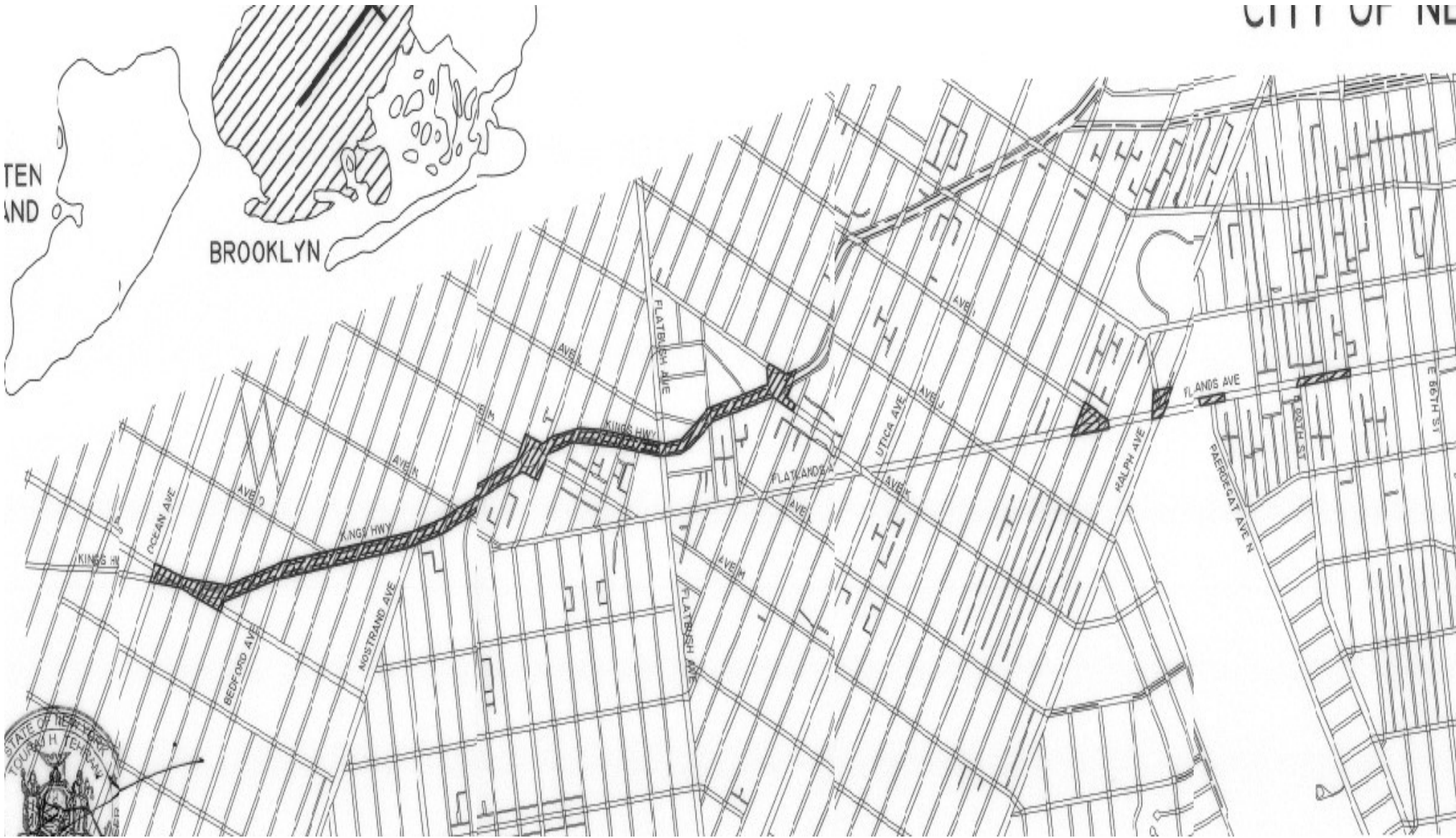
- Laboratory analytical results indicated soil sample SB13 exhibited evidence of hazardous waste characteristics for toxicity as discussed above and identified in Table 2. TCLP lead concentrations detected in the soil sample may be attributed to the presence of historic fill material. The General Contractor, RCC has determined boring location SB13 was advanced in a location where only milling and paving will be performed. This location will not be excavated during the course of work according to RCC.
- Two other samples collected on May 24<sup>th</sup>, 2024 (SB11 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. Two samples collected (SB12 and SB14) contained compound concentrations in concentrations exceeding CUSCOs. In accordance with NYCDDC specifications, soil exceeding CUSCOs must be disposed off-site pursuant to federal, state and local regulations. Approximately 500 to 750 cubic yards of non-hazardous contaminated material are anticipated to be generated during the course of work. There will be no hazardous material generated during the course of work.
- 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:

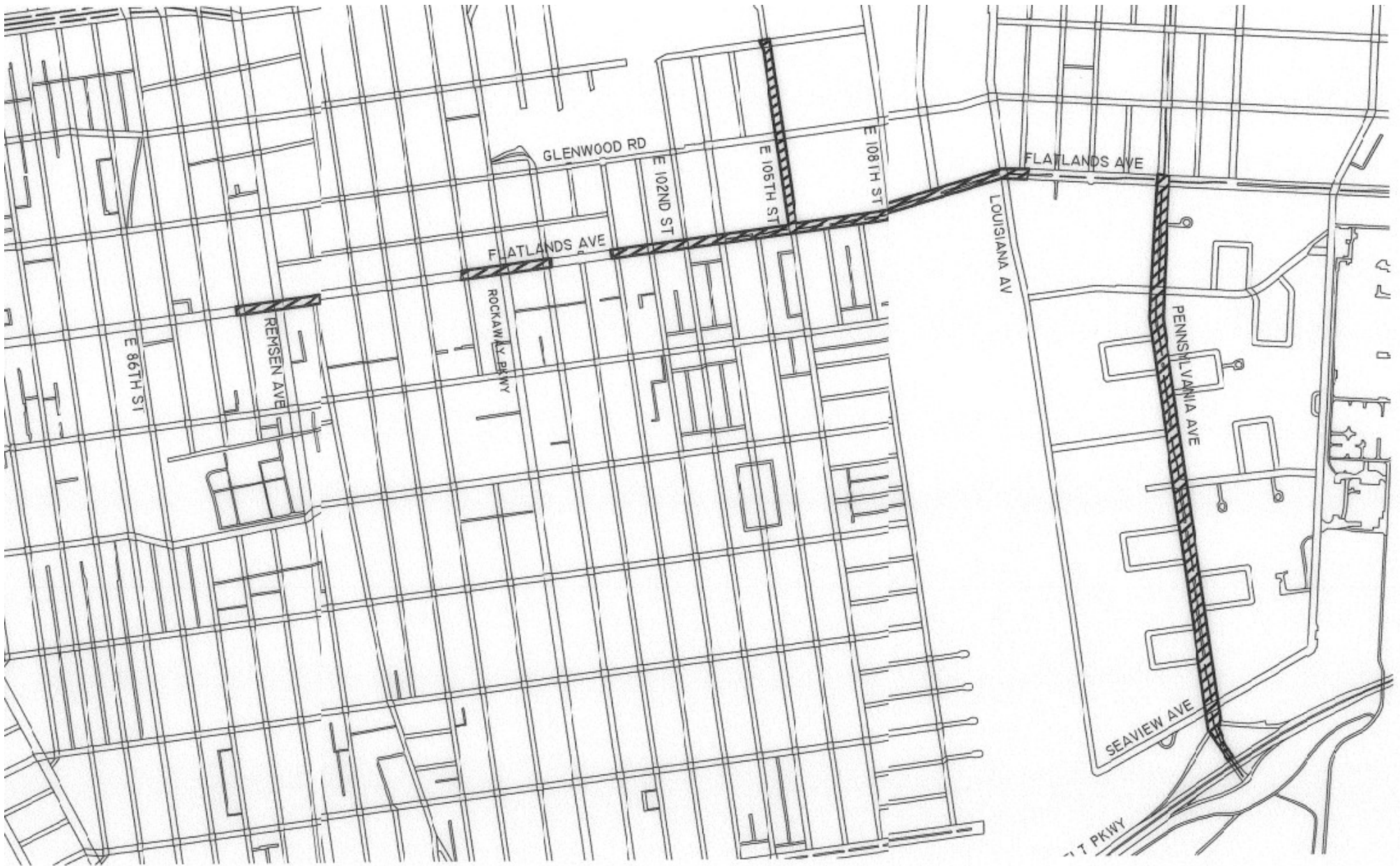


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Brian Pendergast  
Environmental Project Manager

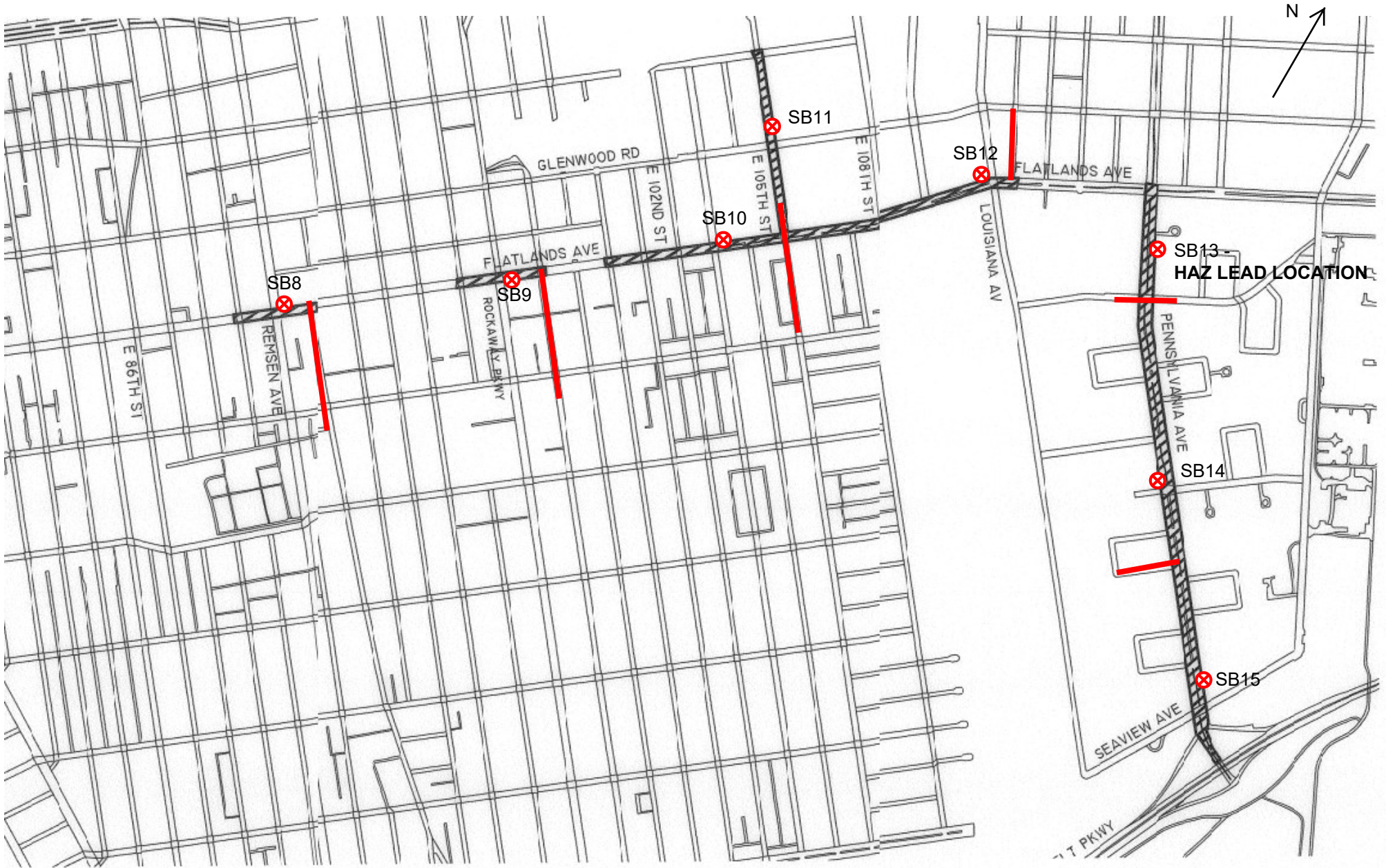


<b>FSSR</b>	<b>FIGURE 1a Location Map</b>
American Environmental Solutions, Inc. AES Proj. #0942	NYCDDC HWK100SBC Southern Brooklyn Crosstown Select Bus Service Nts not to scale



<b>FSSR</b>	<b>FIGURE 1b Location Map</b>
American Environmental Solutions, Inc. AES Proj. #0942	NYCDDC HWK100SBC Southern Brooklyn Crosstown Select Bus Service Nts not to scale





Red circles show boring locations  
 Black hatched areas show work locations.  
 Areas between red lines represent grids of 500 cubic yards of soil to be excavated

<b>FSSR</b>	<b>FIGURE 2 Soil Sampling Locations</b>
American Environmental Solutions, Inc. AES Proj. #0942	NYCCDC HWK100SBC Southern Brooklyn Crosstown Select Bus Service Nts not to scale

APPENDIX A  
LABORATORY ANALYSIS

**SOUTHERN BROOKLYN CROSSTOWN (B82) SELECT BUS SERVICE, BROOKLYN  
NYCDDC PROJECT HWK100SBC  
RESTANI CONSTRUCTION CORP.**

**TABLE 1: SUMMARY OF SOIL ANALYSIS - SAMPLES COLLECTED 5/24/2024**

Parameter	Compounds Detected	Unit	NYSDEC Part 375 Commercial Use Soil Cleanup Objectives	SB11	SB12	SB13	SB14	SB15
<b>PCBs</b>	None detected	ppm	-	ND	ND	ND	ND	ND
<b>Pesticides</b>	4,4-DDE	ppm	62	ND	0.011	ND	ND	ND
	4,4-DDT	ppm	47	ND	0.013	ND	ND	ND
	a-Chlordane	ppm	24	ND	0.011	ND	ND	ND
	Chlordane	ppm	NS	ND	0.062	ND	ND	ND
	g-Chlordane	ppm	NS	ND	0.0096	ND	ND	ND
<b>TAL Metals</b>	Aluminum	ppm	NS	9220	6970	2530	8220	1330
	Antimony	ppm	NS	ND	ND	ND	ND	ND
	Arsenic	ppm	16	3.36	4.64	<b>22.3</b>	13.2	ND
	Barium	ppm	400	37.4	87.5	110	<b>452</b>	15
	Beryllium	ppm	590	.38	.4	.39	.74	ND
	Cadmium	ppm	9.3	ND	ND	0.97	3.96	ND
	Calcium	ppm	NS	959	47,500	2,500	6,080	773
	Chromium	ppm	1500	13.7	17.7	63.6	27.3	6.22
	Cobalt	ppm	NS	5.51	4.83	27.3	9.07	1.24
	Copper	ppm	270	12.1	26.9	224	<b>1350</b>	5.3
	Iron	ppm	NS	13,300	15,700	74,900	26,800	3,040
	Lead	ppm	1000	21.3	59.6	<b>7410</b>	<b>1140</b>	13.2
	Manganese	ppm	10,000	188	230	410	158	28.8
	Magnesium	ppm	NS	1750	7580	262	1710	625
	Mercury	ppm	2.8	0.07	0.12	0.07	<b>4.25</b>	ND
	Nickel	ppm	310	13.1	13.6	64.2	30.5	3.7
	Silver	ppm	1500	ND	ND	ND	ND	ND
	Sodium	ppm	NS	379	852	507	2380	80.5
Potassium	ppm	NS	696	1110	276	1320	326	
Vanadium	ppm	NS	21.3	32.8	24.9	36	6.34	
Zinc	ppm	10,000	27.9	89.2	155	5700	17.3	
<b>Semi-Volatile Organic Compounds</b>	Acenaphthene	ppm	500	ND	.86	ND	ND	ND
	Anthracene	ppm	500	ND	2	ND	ND	ND
	Benz(a)anthracene	ppm	5.6	.8	<b>5.7</b>	ND	ND	.56
	Benzo(a)pyrene	ppm	1	.93	<b>4.8</b>	ND	.56	.6
	Benzo(b)fluoranthene	ppm	5.6	.95	<b>6.4</b>	ND	.56	.68
	Benzo(ghi)perylene	ppm	500	.47	2.3	ND	ND	.31
	Benzo(k)fluoranthene	ppm	56	.36	2.2	ND	ND	ND
	Bis(2-ethylhexyl)phthalate	ppm	NS	ND	ND	ND	1.6	ND
	Carbazole	ppm	NS	ND	.77	ND	ND	ND
	Chrysene	ppm	56	.93	4.8	ND	ND	.55
	Dibenz(a,h)anthracene	ppm	0.56	ND	<b>.6</b>	ND	ND	ND
	Dibenzofuran	ppm	NS	ND	.28	ND	ND	ND
	Fluoranthene	ppm	500	1.1	14	ND	.53	.9
	Fluorene	ppm	500	ND	.75	ND	ND	ND
	Indeno(1,2,3-cd)pyrene	ppm	5.6	.54	2.7	ND	ND	.37
	Napthalene	ppm	500	ND	ND	.57	.6	ND
	Phenanthrene	ppm	500	.47	6.6	ND	.49	.6
	Pyrene	ppm	500	1.4	7.2	ND	.5	.83
<b>Cyanide</b>	Cyanide	ppm	27	ND	ND	0.5	ND	0.61
<b>Volatile Organic Compounds</b>	None detected	ppm	-	ND	ND	ND	ND	ND
<b>TPH</b>	DRO	ppm	NS	ND	ND	130	<b>1,200</b>	ND
	GRO	ppm	NS	ND	ND	11	ND	ND

Notes:

ND Not detected

NS No regulatory criteria available

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

SOUTHERN BROOKLYN CROSSTOWN (B82) SELECT BUS SERVICE, BROOKLYN  
 NYCDDC PROJECT HWK100SBC  
 RESTANI CONSTRUCTION CORP.

TABLE 2: SUMMARY OF TCLP & RCRA ANALYSIS - SAMPLES COLLECTED 5/24/24

Parameter	Compounds Detected	Unit	Regulatory Criteria	SB11	SB12	SB13	SB14	SB15
RCRA Characteristics	pH	pH units	<2 or >12.5	8.26	8.99	7.76	7.36	7.77
	Flashpoint	° F	>200° F	>200°F	>200°F	>200°F	>200°F	>200°F
	Ignitability	° F	<140° F	passed	passed	passed	passed	passed
	Reactivity - Cyanide	ppm	—	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm	—	ND	ND	ND	ND	ND
TOXICITY		Unit	USEPA Toxicity Characteristic Regulatory Criteria	SB11	SB12	SB13	SB14	SB15
TCLP Metals	Barium	mg/L	100	0.88	0.49	2.1	0.7	0.76
	Lead	mg/L	5	0.35	0.2	9.5	1.29	0.68
TCLP VOCs	None Detected	mg/L	0.7	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected			ND	ND	ND	ND	ND
TCLP Pests/Herbicides	None Detected	—	—	ND	ND	ND	ND	ND

Notes:

NS No regulatory criteria available  
 ND Not detected

APPENDIX A  
LABORATORY  
ANALYTICAL RESULTS



Wednesday, June 12, 2024

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

Project ID: HWK100SBC-BROOKLYN BUS ROUTES  
SDG ID: GCQ81819  
Sample ID#s: CQ81819 - CQ81823

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

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

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

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

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

Sincerely yours,

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

Phyllis Shiller  
Laboratory Director

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

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



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



## SDG Comments

June 12, 2024

SDG I.D.: GCQ81819

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



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



## Sample Id Cross Reference

June 12, 2024

SDG I.D.: GCQ81819

Project ID: HWK100SBC-BROOKLYN BUS ROUTES

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Client Id	Lab Id	Matrix
SB11	CQ81819	SOIL
SB12	CQ81820	SOIL
SB13	CQ81821	SOIL
SB14	CQ81822	SOIL
SB15	CQ81823	SOIL





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



# Analysis Report

June 12, 2024

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

## Sample Information

Matrix: SOIL  
 Location Code: AES-INC  
 Rush Request: Standard  
 P.O.#: 0942

## Custody Information

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

## Date

05/24/24  
 05/28/24

## Time

8:55  
 17:28

## Laboratory Data

SDG ID: GCQ81819  
 Phoenix ID: CQ81819

Project ID: HWK100SBC-BROOKLYN BUS ROUTES  
 Client ID: SB11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	05/29/24	TH	SW6010D
Aluminum	9220	54	mg/Kg	10	05/29/24	TH	SW6010D
Arsenic	3.36	0.72	mg/Kg	1	05/29/24	TH	SW6010D
Barium	37.4	0.36	mg/Kg	1	05/29/24	TH	SW6010D
Beryllium	0.38	0.29	mg/Kg	1	05/29/24	TH	SW6010D
Calcium	959	5.4	mg/Kg	1	05/29/24	TH	SW6010D
Cadmium	< 0.36	0.36	mg/Kg	1	05/29/24	TH	SW6010D
Cobalt	5.51	0.36	mg/Kg	1	05/29/24	TH	SW6010D
Chromium	13.7	0.36	mg/Kg	1	05/29/24	TH	SW6010D
Copper	12.1	0.7	mg/kg	1	05/29/24	TH	SW6010D
Iron	13300	54	mg/Kg	10	05/29/24	TH	SW6010D
Mercury	0.07	0.03	mg/Kg	2	05/30/24	ZT	SW7471B
Potassium	696	54	mg/Kg	10	05/29/24	TH	SW6010D
Magnesium	1750	5.4	mg/Kg	1	05/29/24	TH	SW6010D
Manganese	188	0.36	mg/Kg	1	05/29/24	TH	SW6010D
Sodium	379	5.4	mg/Kg	1	05/29/24	TH	SW6010D
Nickel	13.1	0.36	mg/Kg	1	05/29/24	TH	SW6010D
Lead	21.3	0.36	mg/Kg	1	05/29/24	TH	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	05/29/24	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Barium	0.88	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/30/24	ZT	SW846 1311/7470
TCLP Lead	0.35	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010D

Client ID: SB11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.2	3.2	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Metals Digestion	Completed				05/29/24	AL/AL	SW3010A
Vanadium	21.3	0.36	mg/Kg	1	05/29/24	TH	SW6010D
Zinc	27.9	0.7	mg/Kg	1	05/29/24	TH	SW6010D
Percent Solid	85		%		05/28/24	CV	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	05/28/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	05/31/24	G	SW1010B
Ignitability	Passed	140	degree F	1	05/31/24	G	SW846-Ignit
pH at 25C - Soil	8.26	1.00	pH Units	1	05/28/24 22:16	MW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/30/24	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/31/24	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/31/24	NP/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.53	0.53	mg/Kg	1	05/30/24	D/S/G	SW9012B
Mercury Digestion	Completed				05/29/24	AL/AL	SW7471B
Extraction of NY ETPH	Completed				05/29/24	R/H/U	SW3546
Soil Extraction for PCB	Completed				05/28/24	C/A	SW3546
Soil Extraction for Pesticides	Completed				05/28/24	C/A	SW3546
Soil Extraction for SVOA	Completed				05/28/24	H/A	SW3546
TCLP Digestion Mercury	Completed				05/29/24	AL/AL	SW7470A
TCLP Herbicides Extraction	Completed				05/30/24	CV/D	SW8150 MOD
TCLP Extraction for Metals	Completed				05/28/24	AL	SW1311
TCLP Extraction for Organics	Completed				05/28/24	AL	SW1311
TCLP Pesticides Extraction	Completed				05/29/24	CV/CV	SW3510C
TCLP Semi-Volatile Extraction	Completed				05/31/24	LB1/LB1	SW3510C
TCLP Extraction Volatiles	Completed				05/28/24	cv	SW1311
Total Metals Digest	Completed				05/28/24	J/AG	SW3050B

**Gasoline Range Hydrocarbons (C6-C10)**

GRO (C6-C10)	ND	7.1	mg/Kg	50	05/29/24	V	SW8015D GRO
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**QA/QC Surrogates**

% 2,5-Dibromotoluene (FID)	89		%	50	05/29/24	V	70 - 130 %
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**Polychlorinated Biphenyls**

PCB-1016	ND	78	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1221	ND	78	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1232	ND	78	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1242	ND	78	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1248	ND	78	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1254	ND	78	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1260	ND	78	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1262	ND	78	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1268	ND	78	ug/Kg	2	05/29/24	SC	SW8082A

**QA/QC Surrogates**

% DCBP	60		%	2	05/29/24	SC	30 - 150 %
% DCBP (Confirmation)	62		%	2	05/29/24	SC	30 - 150 %
% TCMX	61		%	2	05/29/24	SC	30 - 150 %
% TCMX (Confirmation)	62		%	2	05/29/24	SC	30 - 150 %

Client ID: SB11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Pesticides - Soil</u></b>							
4,4' -DDD	ND	2.3	ug/Kg	2	05/29/24	CN	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	05/29/24	CN	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	05/29/24	CN	SW8081B
a-BHC	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	05/29/24	CN	SW8081B
Aldrin	ND	3.9	ug/Kg	2	05/29/24	CN	SW8081B
b-BHC	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
Chlordane	ND	39	ug/Kg	2	05/29/24	CN	SW8081B
d-BHC	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/29/24	CN	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
Endrin	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/29/24	CN	SW8081B
g-Chlordane	ND	3.9	ug/Kg	2	05/29/24	CN	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	05/29/24	CN	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/29/24	CN	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/29/24	CN	SW8081B
<b><u>QA/QC Surrogates</u></b>							
% DCBP	65		%	2	05/29/24	CN	30 - 150 %
% DCBP (Confirmation)	64		%	2	05/29/24	CN	30 - 150 %
% TCMX	60		%	2	05/29/24	CN	30 - 150 %
% TCMX (Confirmation)	58		%	2	05/29/24	CN	30 - 150 %
<b><u>TCLP Herbicides</u></b>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/24	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	05/31/24	JRB	SW846 1311/8151
<b><u>QA/QC Surrogates</u></b>							
% DCAA	69		%	10	05/31/24	JRB	30 - 150 %
% DCAA (Confirmation)	61		%	10	05/31/24	JRB	30 - 150 %
<b><u>TCLP Pesticides</u></b>							
4,4' -DDD	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	05/29/24	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	05/29/24	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/29/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>							
%DCBP (Surrogate Rec)	68		%	10	05/29/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	63		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	63		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	66		%	10	05/29/24	AW	30 - 150 %
<b><u>TPH DRO (C10-C28)</u></b>							
Diesel Range Organics (C10-C28)	ND	57	mg/Kg	1	05/30/24	JRB	SW-846 8015
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	83		%	1	05/30/24	JRB	50 - 150 %
% Terphenyl (surr)	90		%	1	05/30/24	JRB	50 - 150 %
<b><u>Volatiles (TCL)</u></b>							
1,1,1-Trichloroethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromoethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
2-Hexanone	ND	28	ug/kg	1	05/29/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	28	ug/kg	1	05/29/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/29/24	JLI	SW8260D
Benzene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Bromochloromethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Bromodichloromethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Bromoform	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Bromomethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Carbon Disulfide	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Carbon tetrachloride	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Chlorobenzene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Chloroethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Chloroform	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Chloromethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Cyclohexane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Dibromochloromethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Ethylbenzene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Isopropylbenzene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
m&p-Xylene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Methyl ethyl ketone	ND	33	ug/kg	1	05/29/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	05/29/24	JLI	SW8260D
Methylacetate	ND	4.4	ug/kg	1	05/29/24	JLI	SW8260D
Methylcyclohexane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Methylene chloride	ND	28	ug/kg	1	05/29/24	JLI	SW8260D
o-Xylene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Styrene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Tetrachloroethene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Toluene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Total Xylenes	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Trichloroethene	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
Vinyl chloride	ND	5.5	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	95		%	1	05/29/24	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/29/24	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/29/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/29/24	JLI	70 - 130 %
<b><u>1,4-dioxane</u></b>							
1,4-dioxane	ND	83	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>TCLP Volatiles</u></b>							
1,1-Dichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	05/30/24	HM	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	05/30/24	HM	70 - 130 %
% Dibromofluoromethane (10x)	88		%	10	05/30/24	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	05/30/24	HM	70 - 130 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatile Library Search	Completed				05/29/24	JLI	
<b><u>Semivolatiles</u></b>							
1,1-Biphenyl	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dinitrophenol	ND	610	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dinitrotoluene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2,6-Dinitrotoluene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2-Chloronaphthalene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
2-Nitroaniline	ND	610	ug/Kg	1	05/29/24	AW	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	05/29/24	AW	SW8270E
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	05/29/24	AW	SW8270E
3-Nitroaniline	ND	610	ug/Kg	1	05/29/24	AW	SW8270E
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	05/29/24	AW	SW8270E
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	05/29/24	AW	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
4-Chloroaniline	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
4-Nitroaniline	ND	610	ug/Kg	1	05/29/24	AW	SW8270E
4-Nitrophenol	ND	1100	ug/Kg	1	05/29/24	AW	SW8270E
Acenaphthene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Acetophenone	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Anthracene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Atrazine	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Benz(a)anthracene	800	270	ug/Kg	1	05/29/24	AW	SW8270E
Benzaldehyde	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(a)pyrene	930	270	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(b)fluoranthene	950	270	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(ghi)perylene	470	270	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(k)fluoranthene	360	270	ug/Kg	1	05/29/24	AW	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Caprolactam	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Carbazole	ND	380	ug/Kg	1	05/29/24	AW	SW8270E
Chrysene	930	270	ug/Kg	1	05/29/24	AW	SW8270E
Dibenz(a,h)anthracene	ND	190	ug/Kg	1	05/29/24	AW	SW8270E
Dibenzofuran	ND	270	ug/Kg	1	05/29/24	AW	SW8270E

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Di-n-butylphthalate	ND	770	ug/Kg	1	05/29/24	AW	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Fluoranthene	1100	270	ug/Kg	1	05/29/24	AW	SW8270E
Fluorene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Indeno(1,2,3-cd)pyrene	540	270	ug/Kg	1	05/29/24	AW	SW8270E
Isophorone	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Naphthalene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	05/29/24	AW	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	05/29/24	AW	SW8270E
Phenanthrene	470	270	ug/Kg	1	05/29/24	AW	SW8270E
Phenol	ND	270	ug/Kg	1	05/29/24	AW	SW8270E
Pyrene	1400	270	ug/Kg	1	05/29/24	AW	SW8270E
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	66		%	1	05/29/24	AW	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	05/29/24	AW	30 - 130 %
% 2-Fluorophenol	65		%	1	05/29/24	AW	30 - 130 %
% Nitrobenzene-d5	81		%	1	05/29/24	AW	30 - 130 %
% Phenol-d5	70		%	1	05/29/24	AW	30 - 130 %
% Terphenyl-d14	58		%	1	05/29/24	AW	30 - 130 %
<b><u>TCLP Acid/Base-Neutral</u></b>							
1,4-Dichlorobenzene	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	06/01/24	MR	SW-846 1311/8270
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	64		%	1	06/01/24	MR	15 - 110 %
% 2-Fluorobiphenyl	68		%	1	06/01/24	MR	30 - 130 %
% 2-Fluorophenol	62		%	1	06/01/24	MR	15 - 110 %
% Nitrobenzene-d5	79		%	1	06/01/24	MR	30 - 130 %
% Phenol-d5	59		%	1	06/01/24	MR	15 - 110 %
% Terphenyl-d14	82		%	1	06/01/24	MR	30 - 130 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatile Library Search	Completed				05/29/24	E	

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

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

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

**Comments:**

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

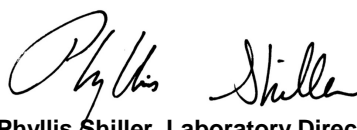
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

**Volatile Comment:**

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

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

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



**Phyllis Shiller, Laboratory Director**

**June 12, 2024**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**





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



# Analysis Report

June 12, 2024

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

## Sample Information

Matrix: SOIL  
 Location Code: AES-INC  
 Rush Request: Standard  
 P.O.#: 0942

## Custody Information

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

## Date

05/24/24  
 05/28/24

## Time

9:26  
 17:28

## Laboratory Data

SDG ID: GCQ81819  
 Phoenix ID: CQ81820

Project ID: HWK100SBC-BROOKLYN BUS ROUTES  
 Client ID: SB12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	05/29/24	TH	SW6010D
Aluminum	6970	5.6	mg/Kg	1	05/29/24	TH	SW6010D
Arsenic	4.64	0.75	mg/Kg	1	05/29/24	TH	SW6010D
Barium	87.5	0.38	mg/Kg	1	05/29/24	TH	SW6010D
Beryllium	0.40	0.30	mg/Kg	1	05/29/24	TH	SW6010D
Calcium	47500	56	mg/Kg	10	05/29/24	TH	SW6010D
Cadmium	< 0.38	0.38	mg/Kg	1	05/29/24	TH	SW6010D
Cobalt	4.83	0.38	mg/Kg	1	05/29/24	TH	SW6010D
Chromium	17.7	0.38	mg/Kg	1	05/29/24	TH	SW6010D
Copper	26.9	0.8	mg/kg	1	05/29/24	TH	SW6010D
Iron	15700	56	mg/Kg	10	05/29/24	TH	SW6010D
Mercury	0.12	0.03	mg/Kg	2	05/30/24	ZT	SW7471B
Potassium	1110	56	mg/Kg	10	05/29/24	TH	SW6010D
Magnesium	7580	56	mg/Kg	10	05/29/24	TH	SW6010D
Manganese	230	0.38	mg/Kg	1	05/29/24	TH	SW6010D
Sodium	852	5.6	mg/Kg	1	05/29/24	TH	SW6010D
Nickel	13.6	0.38	mg/Kg	1	05/29/24	TH	SW6010D
Lead	59.6	0.38	mg/Kg	1	05/29/24	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	05/29/24	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Barium	0.49	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/30/24	ZT	SW846 1311/7470
TCLP Lead	0.20	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010D

Client ID: SB12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.4	3.4	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Metals Digestion	Completed				05/29/24	AL/AL	SW3010A
Vanadium	32.8	0.38	mg/Kg	1	05/29/24	TH	SW6010D
Zinc	89.2	0.8	mg/Kg	1	05/29/24	TH	SW6010D
Percent Solid	83		%		05/28/24	CV	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	05/28/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	05/31/24	G	SW1010B
Ignitability	Passed	140	degree F	1	05/31/24	G	SW846-Ignit
pH at 25C - Soil	8.99	1.00	pH Units	1	05/28/24 22:16	MW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/30/24	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/31/24	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/31/24	NP/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.60	0.60	mg/Kg	1	05/30/24	D/S/G	SW9012B
Mercury Digestion	Completed				05/29/24	AL/AL	SW7471B
Extraction of NY ETPH	Completed				05/29/24	R/H/U	SW3546
Soil Extraction for PCB	Completed				05/28/24	C/A	SW3546
Soil Extraction for Pesticides	Completed				05/28/24	C/A	SW3546
Soil Extraction for SVOA	Completed				05/28/24	H/A	SW3546
TCLP Digestion Mercury	Completed				05/29/24	AL/AL	SW7470A
TCLP Herbicides Extraction	Completed				05/30/24	CV/D	SW8150 MOD
TCLP Extraction for Metals	Completed				05/28/24	AL	SW1311
TCLP Extraction for Organics	Completed				05/28/24	AL	SW1311
TCLP Pesticides Extraction	Completed				05/29/24	CV/CV	SW3510C
TCLP Semi-Volatile Extraction	Completed				05/31/24	LB1/LB1	SW3510C
TCLP Extraction Volatiles	Completed				05/28/24	cv	SW1311
Total Metals Digest	Completed				05/28/24	J/AG	SW3050B

**Gasoline Range Hydrocarbons (C6-C10)**

GRO (C6-C10)	ND	11	mg/Kg	50	05/29/24	V	SW8015D GRO
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**QA/QC Surrogates**

% 2,5-Dibromotoluene (FID)	93		%	50	05/29/24	V	70 - 130 %
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**Polychlorinated Biphenyls**

PCB-1016	ND	80	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1221	ND	80	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1232	ND	80	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1242	ND	80	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1248	ND	80	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1254	ND	80	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1260	ND	80	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1262	ND	80	ug/Kg	2	05/29/24	SC	SW8082A
PCB-1268	ND	80	ug/Kg	2	05/29/24	SC	SW8082A

**QA/QC Surrogates**

% DCBP	73		%	2	05/29/24	SC	30 - 150 %
% DCBP (Confirmation)	71		%	2	05/29/24	SC	30 - 150 %
% TCMX	68		%	2	05/29/24	SC	30 - 150 %
% TCMX (Confirmation)	70		%	2	05/29/24	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Pesticides - Soil</u></b>							
4,4' -DDD	ND	2.4	ug/Kg	2	05/29/24	AW	SW8081B
4,4' -DDE	11	2.4	ug/Kg	2	05/29/24	AW	SW8081B
4,4' -DDT	13	2.4	ug/Kg	2	05/29/24	AW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
a-Chlordane	11	4.0	ug/Kg	2	05/29/24	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	05/29/24	AW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Chlordane	62	40	ug/Kg	2	05/29/24	AW	SW8081B
d-BHC	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	05/29/24	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/29/24	AW	SW8081B
g-Chlordane	9.6	4.0	ug/Kg	2	05/29/24	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	05/29/24	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/29/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>							
% DCBP	82		%	2	05/29/24	AW	30 - 150 %
% DCBP (Confirmation)	82		%	2	05/29/24	AW	30 - 150 %
% TCMX	80		%	2	05/29/24	AW	30 - 150 %
% TCMX (Confirmation)	73		%	2	05/29/24	AW	30 - 150 %
<b><u>TCLP Herbicides</u></b>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/24	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	05/31/24	JRB	SW846 1311/8151
<b><u>QA/QC Surrogates</u></b>							
% DCAA	67		%	10	05/31/24	JRB	30 - 150 %
% DCAA (Confirmation)	59		%	10	05/31/24	JRB	30 - 150 %
<b><u>TCLP Pesticides</u></b>							
4,4' -DDD	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	05/29/24	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	05/29/24	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/29/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>							
%DCBP (Surrogate Rec)	74		%	10	05/29/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	68		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	72		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	72		%	10	05/29/24	AW	30 - 150 %
<b><u>TPH DRO (C10-C28)</u></b>							
Diesel Range Organics (C10-C28)	ND	300	mg/Kg	5	05/30/24	JRB	SW-846 8015
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	92		%	5	05/30/24	JRB	50 - 150 %
% Terphenyl (surr)	66		%	5	05/30/24	JRB	50 - 150 %
<b><u>Volatiles (TCL)</u></b>							
1,1,1-Trichloroethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromoethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloroethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloropropane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
2-Hexanone	ND	35	ug/kg	1	05/29/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	35	ug/kg	1	05/29/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/29/24	JLI	SW8260D
Benzene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Bromochloromethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Bromodichloromethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Bromoform	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Bromomethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Carbon Disulfide	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Carbon tetrachloride	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Chlorobenzene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Chloroethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Chloroform	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Chloromethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Cyclohexane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Dibromochloromethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Dichlorodifluoromethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Ethylbenzene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Isopropylbenzene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
m&p-Xylene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Methyl ethyl ketone	ND	42	ug/kg	1	05/29/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	14	ug/kg	1	05/29/24	JLI	SW8260D
Methylacetate	ND	5.6	ug/kg	1	05/29/24	JLI	SW8260D
Methylcyclohexane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Methylene chloride	ND	35	ug/kg	1	05/29/24	JLI	SW8260D
o-Xylene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Styrene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Tetrachloroethene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Toluene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Total Xylenes	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Trichloroethene	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorofluoromethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
Vinyl chloride	ND	7.0	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	93		%	1	05/29/24	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	05/29/24	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	05/29/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	05/29/24	JLI	70 - 130 %
<b><u>1,4-dioxane</u></b>							
1,4-dioxane	ND	100	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>TCLP Volatiles</u></b>							
1,1-Dichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	05/30/24	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	05/30/24	HM	70 - 130 %
% Dibromofluoromethane (10x)	92		%	10	05/30/24	HM	70 - 130 %
% Toluene-d8 (10x)	98		%	10	05/30/24	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatile Library Search	Completed				05/29/24	JLI	
<b><u>Semivolatiles</u></b>							
1,1-Biphenyl	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2,4-Dinitrophenol	ND	630	ug/Kg	1	05/29/24	MR	SW8270E
2,4-Dinitrotoluene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2,6-Dinitrotoluene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2-Chloronaphthalene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
2-Nitroaniline	ND	630	ug/Kg	1	05/29/24	MR	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	05/29/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	05/29/24	MR	SW8270E
3-Nitroaniline	ND	630	ug/Kg	1	05/29/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	05/29/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	05/29/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
4-Chloroaniline	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
4-Nitroaniline	ND	630	ug/Kg	1	05/29/24	MR	SW8270E
4-Nitrophenol	ND	1100	ug/Kg	1	05/29/24	MR	SW8270E
Acenaphthene	860	270	ug/Kg	1	05/29/24	MR	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Acetophenone	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Anthracene	2000	270	ug/Kg	1	05/29/24	MR	SW8270E
Atrazine	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Benz(a)anthracene	5700	270	ug/Kg	1	05/29/24	MR	SW8270E
Benzaldehyde	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Benzo(a)pyrene	4800	270	ug/Kg	1	05/29/24	MR	SW8270E
Benzo(b)fluoranthene	6400	270	ug/Kg	1	05/29/24	MR	SW8270E
Benzo(ghi)perylene	2300	270	ug/Kg	1	05/29/24	MR	SW8270E
Benzo(k)fluoranthene	2200	270	ug/Kg	1	05/29/24	MR	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	05/29/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Caprolactam	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Carbazole	770	390	ug/Kg	1	05/29/24	MR	SW8270E
Chrysene	4800	270	ug/Kg	1	05/29/24	MR	SW8270E
Dibenz(a,h)anthracene	600	200	ug/Kg	1	05/29/24	MR	SW8270E
Dibenzofuran	280	270	ug/Kg	1	05/29/24	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Di-n-butylphthalate	ND	780	ug/Kg	1	05/29/24	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Fluoranthene	14000	1400	ug/Kg	5	05/31/24	MR	SW8270E
Fluorene	750	270	ug/Kg	1	05/29/24	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	2700	270	ug/Kg	1	05/29/24	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	05/29/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	05/29/24	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	05/29/24	MR	SW8270E
Phenanthrene	6600	270	ug/Kg	1	05/29/24	MR	SW8270E
Phenol	ND	270	ug/Kg	1	05/29/24	MR	SW8270E
Pyrene	7200	270	ug/Kg	1	05/29/24	MR	SW8270E
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	62		%	1	05/29/24	MR	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	05/29/24	MR	30 - 130 %
% 2-Fluorophenol	64		%	1	05/29/24	MR	30 - 130 %
% Nitrobenzene-d5	78		%	1	05/29/24	MR	30 - 130 %
% Phenol-d5	69		%	1	05/29/24	MR	30 - 130 %
% Terphenyl-d14	48		%	1	05/29/24	MR	30 - 130 %
% 2-Fluorobiphenyl (5x)	71		%	5	05/31/24	MR	30 - 130 %
% Nitrobenzene-d5 (5x)	78		%	5	05/31/24	MR	30 - 130 %
% Terphenyl-d14 (5x)	59		%	5	05/31/24	MR	30 - 130 %
<b><u>TCLP Acid/Base-Neutral</u></b>							
1,4-Dichlorobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	49		%	1	06/02/24	MR	15 - 110 %
% 2-Fluorobiphenyl	58		%	1	06/02/24	MR	30 - 130 %
% 2-Fluorophenol	49		%	1	06/02/24	MR	15 - 110 %
% Nitrobenzene-d5	62		%	1	06/02/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Phenol-d5	48		%	1	06/02/24	MR	15 - 110 %
% Terphenyl-d14	67		%	1	06/02/24	MR	30 - 130 %
Semivolatile Library Search	Completed				05/29/24	E	

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

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

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

**Comments:**

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

**Volatile Comment:**

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

**TPH Comment:**

The sample chromatogram exhibited non-DRO material outside the C10-C28 range.

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

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**

**June 12, 2024**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**





Environmental Laboratories, Inc.

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



Analysis Report

June 12, 2024

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

Sample Information

Matrix: SOIL  
Location Code: AES-INC  
Rush Request: 24 Hour  
P.O.#: 0942

Custody Information

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

Date

05/24/24  
05/28/24

Time

11:23  
17:28

Laboratory Data

SDG ID: GCQ81819  
Phoenix ID: CQ81821

Project ID: HWK100SBC-BROOKLYN BUS ROUTES  
Client ID: SB13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	1	05/29/24	TH	SW6010D
Aluminum	2530	6.1	mg/Kg	1	05/29/24	TH	SW6010D
Arsenic	22.3	0.81	mg/Kg	1	05/29/24	TH	SW6010D
Barium	110	0.41	mg/Kg	1	05/29/24	TH	SW6010D
Beryllium	0.39	0.33	mg/Kg	1	05/29/24	TH	SW6010D
Calcium	2500	6.1	mg/Kg	1	05/29/24	TH	SW6010D
Cadmium	0.97	0.41	mg/Kg	1	05/29/24	TH	SW6010D
Cobalt	27.3	0.41	mg/Kg	1	05/29/24	TH	SW6010D
Chromium	63.6	0.41	mg/Kg	1	05/29/24	TH	SW6010D
Copper	224	0.8	mg/kg	1	05/29/24	TH	SW6010D
Iron	74900	61	mg/Kg	10	05/29/24	TH	SW6010D
Mercury	0.07	0.03	mg/Kg	2	05/30/24	ZT	SW7471B
Potassium	276	6.1	mg/Kg	1	05/29/24	TH	SW6010D
Magnesium	262	6.1	mg/Kg	1	05/29/24	TH	SW6010D
Manganese	410	0.41	mg/Kg	1	05/29/24	TH	SW6010D
Sodium	507	6.1	mg/Kg	1	05/29/24	TH	SW6010D
Nickel	64.2	0.41	mg/Kg	1	05/29/24	TH	SW6010D
Lead	7410	4.1	mg/Kg	10	05/29/24	TH	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	05/29/24	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Barium	2.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/30/24	ZT	SW846 1311/7470
TCLP Lead	9.50	0.10	mg/L	1	06/10/24	PM	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010D

Client ID: SB13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.7	3.7	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Metals Digestion	Completed				06/10/24	AL/AL	SW3010A
Vanadium	24.9	0.41	mg/Kg	1	05/29/24	TH	SW6010D
Zinc	155	0.8	mg/Kg	1	05/29/24	TH	SW6010D
Percent Solid	82		%		05/28/24	CV	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	05/28/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	05/31/24	G	SW1010B
Ignitability	Passed	140	degree F	1	05/31/24	G	SW846-Ignit
pH at 25C - Soil	7.76	1.00	pH Units	1	05/28/24 22:16	MW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/30/24	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	34.7	20	mg/Kg	1	05/31/24	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/31/24	NP/GD	SW846-React
Total Cyanide (SW9010C Distill.)	0.50	0.47	mg/Kg	1	05/30/24	D/S/G	SW9012B
Mercury Digestion	Completed				05/29/24	AL/AL	SW7471B
Extraction of NY ETPH	Completed				05/29/24	R/H/U	SW3546
Soil Extraction for PCB	Completed				05/28/24	C/A	SW3546
Soil Extraction for Pesticides	Completed				05/28/24	C/A	SW3546
Soil Extraction for SVOA	Completed				05/28/24	H/A	SW3546
TCLP Digestion Mercury	Completed				05/29/24	AL/AL	SW7470A
TCLP Herbicides Extraction	Completed				05/30/24	CV/D	SW8150 MOD
TCLP Extraction for Metals	Completed				06/07/24	AL	SW1311
TCLP Extraction for Organics	Completed				05/28/24	AL	SW1311
TCLP Pesticides Extraction	Completed				05/29/24	CV/CV	SW3510C
TCLP Semi-Volatile Extraction	Completed				05/31/24	LB1/LB1	SW3510C
TCLP Extraction Volatiles	Completed				05/28/24	cv	SW1311
Total Metals Digest	Completed				05/28/24	J/AG	SW3050B

**Gasoline Range Hydrocarbons (C6-C10)**

GRO (C6-C10)	11	9.8	mg/Kg	50	05/29/24	V	SW8015D GRO
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**QA/QC Surrogates**

% 2,5-Dibromotoluene (FID)	92		%	50	05/29/24	V	70 - 130 %
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**Polychlorinated Biphenyls**

PCB-1016	ND	80	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1221	ND	80	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1232	ND	80	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1242	ND	80	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1248	ND	80	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1254	ND	80	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1260	ND	80	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1262	ND	80	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1268	ND	80	ug/Kg	2	05/30/24	SC	SW8082A

**QA/QC Surrogates**

% DCBP	79		%	2	05/30/24	SC	30 - 150 %
% DCBP (Confirmation)	94		%	2	05/30/24	SC	30 - 150 %
% TCMX	52		%	2	05/30/24	SC	30 - 150 %
% TCMX (Confirmation)	54		%	2	05/30/24	SC	30 - 150 %

Client ID: SB13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Pesticides - Soil</u></b>							
4,4' -DDD	ND	2.4	ug/Kg	2	05/29/24	AW	SW8081B
4,4' -DDE	ND	2.4	ug/Kg	2	05/29/24	AW	SW8081B
4,4' -DDT	ND	2.4	ug/Kg	2	05/29/24	AW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
a-Chlordane	ND	4.0	ug/Kg	2	05/29/24	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	05/29/24	AW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	05/29/24	AW	SW8081B
d-BHC	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	05/29/24	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/29/24	AW	SW8081B
g-Chlordane	ND	4.0	ug/Kg	2	05/29/24	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	05/29/24	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	05/29/24	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/29/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>							
% DCBP	112		%	2	05/29/24	AW	30 - 150 %
% DCBP (Confirmation)	105		%	2	05/29/24	AW	30 - 150 %
% TCMX	66		%	2	05/29/24	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	05/29/24	AW	30 - 150 %
<b><u>TCLP Herbicides</u></b>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/24	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	05/31/24	JRB	SW846 1311/8151
<b><u>QA/QC Surrogates</u></b>							
% DCAA	67		%	10	05/31/24	JRB	30 - 150 %
% DCAA (Confirmation)	59		%	10	05/31/24	JRB	30 - 150 %
<b><u>TCLP Pesticides</u></b>							
4,4' -DDD	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	05/29/24	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	05/29/24	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/29/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>							
%DCBP (Surrogate Rec)	74		%	10	05/29/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	67		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	69		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	71		%	10	05/29/24	AW	30 - 150 %
<b><u>TPH DRO (C10-C28)</u></b>							
Diesel Range Organics (C10-C28)	130	60	mg/Kg	1	05/30/24	JRB	SW-846 8015
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	66		%	1	05/30/24	JRB	50 - 150 %
% Terphenyl (surr)	88		%	1	05/30/24	JRB	50 - 150 %
<b><u>Volatiles (TCL)</u></b>							
1,1,1-Trichloroethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromoethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloroethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloropropane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
2-Hexanone	ND	51	ug/kg	1	05/29/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	51	ug/kg	1	05/29/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/29/24	JLI	SW8260D
Benzene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Bromochloromethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Bromodichloromethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Bromoform	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Bromomethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Carbon Disulfide	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Carbon tetrachloride	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Chlorobenzene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Chloroethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Chloroform	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Chloromethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D

Client ID: SB13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Cyclohexane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Dibromochloromethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Dichlorodifluoromethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Ethylbenzene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Isopropylbenzene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
m&p-Xylene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Methyl ethyl ketone	ND	61	ug/kg	1	05/29/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Methylacetate	ND	8.1	ug/kg	1	05/29/24	JLI	SW8260D
Methylcyclohexane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Methylene chloride	ND	50	ug/kg	1	05/29/24	JLI	SW8260D
o-Xylene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Styrene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Tetrachloroethene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Toluene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Total Xylenes	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Trichloroethene	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorofluoromethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
Vinyl chloride	ND	10	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	98		%	1	05/29/24	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/29/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	05/29/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/29/24	JLI	70 - 130 %
<b><u>1,4-dioxane</u></b>							
1,4-dioxane	ND	100	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>TCLP Volatiles</u></b>							
1,1-Dichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	05/30/24	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	05/30/24	HM	70 - 130 %
% Dibromofluoromethane (10x)	88		%	10	05/30/24	HM	70 - 130 %
% Toluene-d8 (10x)	97		%	10	05/30/24	HM	70 - 130 %

Client ID: SB13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatile Library Search	Completed				05/29/24	JLI	
<b><u>Semivolatiles</u></b>							
1,1-Biphenyl	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2,4,6-Trichlorophenol	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dichlorophenol	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dimethylphenol	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dinitrophenol	ND	650	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dinitrotoluene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2,6-Dinitrotoluene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2-Chloronaphthalene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2-Chlorophenol	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2-Methylnaphthalene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
2-Nitroaniline	ND	650	ug/Kg	1	05/29/24	AW	SW8270E
2-Nitrophenol	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	1	05/29/24	AW	SW8270E
3,3'-Dichlorobenzidine	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
3-Nitroaniline	ND	650	ug/Kg	1	05/29/24	AW	SW8270E
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	1	05/29/24	AW	SW8270E
4-Bromophenyl phenyl ether	ND	410	ug/Kg	1	05/29/24	AW	SW8270E
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
4-Chloroaniline	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
4-Nitroaniline	ND	650	ug/Kg	1	05/29/24	AW	SW8270E
4-Nitrophenol	ND	1200	ug/Kg	1	05/29/24	AW	SW8270E
Acenaphthene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Acenaphthylene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Acetophenone	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Anthracene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Atrazine	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Benz(a)anthracene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Benzaldehyde	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(a)pyrene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(b)fluoranthene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Benzyl butyl phthalate	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-chloroethyl)ether	ND	410	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Caprolactam	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Carbazole	ND	410	ug/Kg	1	05/29/24	AW	SW8270E
Chrysene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Dibenz(a,h)anthracene	ND	200	ug/Kg	1	05/29/24	AW	SW8270E
Dibenzofuran	ND	280	ug/Kg	1	05/29/24	AW	SW8270E

Client ID: SB13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Dimethylphthalate	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Di-n-butylphthalate	ND	810	ug/Kg	1	05/29/24	AW	SW8270E
Di-n-octylphthalate	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Fluoranthene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Fluorene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorobenzene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorobutadiene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Hexachloroethane	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Isophorone	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Naphthalene	570	280	ug/Kg	1	05/29/24	AW	SW8270E
Nitrobenzene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodimethylamine	ND	410	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodiphenylamine	ND	410	ug/Kg	1	05/29/24	AW	SW8270E
Pentachlorophenol	ND	410	ug/Kg	1	05/29/24	AW	SW8270E
Phenanthrene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Phenol	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
Pyrene	ND	280	ug/Kg	1	05/29/24	AW	SW8270E
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	51		%	1	05/29/24	AW	30 - 130 %
% 2-Fluorobiphenyl	54		%	1	05/29/24	AW	30 - 130 %
% 2-Fluorophenol	53		%	1	05/29/24	AW	30 - 130 %
% Nitrobenzene-d5	60		%	1	05/29/24	AW	30 - 130 %
% Phenol-d5	54		%	1	05/29/24	AW	30 - 130 %
% Terphenyl-d14	37		%	1	05/29/24	AW	30 - 130 %
<b><u>TCLP Acid/Base-Neutral</u></b>							
1,4-Dichlorobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	60		%	1	06/02/24	MR	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	06/02/24	MR	30 - 130 %
% 2-Fluorophenol	59		%	1	06/02/24	MR	15 - 110 %
% Nitrobenzene-d5	75		%	1	06/02/24	MR	30 - 130 %
% Phenol-d5	54		%	1	06/02/24	MR	15 - 110 %
% Terphenyl-d14	83		%	1	06/02/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatile Library Search	Completed				05/29/24	E	

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

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

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

**Comments:**

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

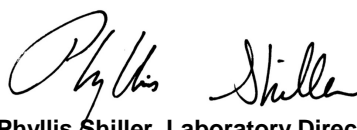
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

**Volatile Comment:**

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

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

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



**Phyllis Shiller, Laboratory Director**

**June 12, 2024**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**





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



# Analysis Report

June 12, 2024

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

## Sample Information

Matrix: SOIL  
 Location Code: AES-INC  
 Rush Request: Standard  
 P.O.#: 0942

## Custody Information

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

## Date

05/24/24  
 05/28/24

## Time

10:14  
 17:28

## Laboratory Data

SDG ID: GCQ81819  
 Phoenix ID: CQ81822

Project ID: HWK100SBC-BROOKLYN BUS ROUTES  
 Client ID: SB14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 1.0	1.0	mg/Kg	1	05/29/24	TH	SW6010D
Aluminum	8220	11	mg/Kg	1	05/29/24	TH	SW6010D
Arsenic	13.2	1.5	mg/Kg	1	05/29/24	TH	SW6010D
Barium	452	0.76	mg/Kg	1	05/29/24	TH	SW6010D
Beryllium	0.74	0.61	mg/Kg	1	05/29/24	TH	SW6010D
Calcium	6080	11	mg/Kg	1	05/29/24	TH	SW6010D
Cadmium	3.96	0.76	mg/Kg	1	05/29/24	TH	SW6010D
Cobalt	9.07	0.76	mg/Kg	1	05/29/24	TH	SW6010D
Chromium	27.3	0.76	mg/Kg	1	05/29/24	TH	SW6010D
Copper	1350	1.5	mg/kg	1	05/29/24	TH	SW6010D
Iron	26800	110	mg/Kg	10	05/29/24	TH	SW6010D
Mercury	4.25	0.56	mg/Kg	20	05/30/24	ZT	SW7471B
Potassium	1320	110	mg/Kg	10	05/29/24	TH	SW6010D
Magnesium	1710	11	mg/Kg	1	05/29/24	TH	SW6010D
Manganese	158	0.76	mg/Kg	1	05/29/24	TH	SW6010D
Sodium	2380	11	mg/Kg	1	05/29/24	TH	SW6010D
Nickel	30.5	0.76	mg/Kg	1	05/29/24	TH	SW6010D
Lead	1140	0.76	mg/Kg	1	05/29/24	TH	SW6010D
Antimony	< 7.6	7.6	mg/Kg	1	05/29/24	TH	SW6010D
Selenium	< 3.0	3.0	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Barium	0.70	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/30/24	ZT	SW846 1311/7470
TCLP Lead	1.29	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 6.8	6.8	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Metals Digestion	Completed				05/29/24	AL/AL	SW3010A
Vanadium	36.0	0.76	mg/Kg	1	05/29/24	TH	SW6010D
Zinc	5700	1.5	mg/Kg	1	05/29/24	TH	SW6010D
Percent Solid	47		%		05/28/24	CV	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	05/28/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	05/31/24	G	SW1010B
Ignitability	Passed	140	degree F	1	05/31/24	G	SW846-Ignit
pH at 25C - Soil	7.36	1.00	pH Units	1	05/28/24 22:16	MW	SW846 9045D
Reactivity Cyanide	< 11	11	mg/Kg	1	05/30/24	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/31/24	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/31/24	NP/GD	SW846-React
Total Cyanide (SW9010C Distill.)	< 0.89	0.89	mg/Kg	1	05/30/24	D/S/G	SW9012B
Mercury Digestion	Completed				05/29/24	AL/AL	SW7471B
Extraction of NY ETPH	Completed				05/29/24	R/H/U	SW3546
Soil Extraction for PCB	Completed				05/29/24	C/U	SW3546
Soil Extraction for Pesticides	Completed				05/29/24	C/U	SW3546
Soil Extraction for SVOA	Completed				05/28/24	H/A	SW3546
TCLP Digestion Mercury	Completed				05/29/24	AL/AL	SW7470A
TCLP Herbicides Extraction	Completed				05/30/24	CV/D	SW8150 MOD
TCLP Extraction for Metals	Completed				05/28/24	AL	SW1311
TCLP Extraction for Organics	Completed				05/28/24	AL	SW1311
TCLP Pesticides Extraction	Completed				05/29/24	CV/CV	SW3510C
TCLP Semi-Volatile Extraction	Completed				05/31/24	LB1/LB1	SW3510C
TCLP Extraction Volatiles	Completed				05/28/24	cv	SW1311
Total Metals Digest	Completed				05/28/24	J/AG	SW3050B

**Gasoline Range Hydrocarbons (C6-C10)**

GRO (C6-C10)	ND	31	mg/Kg	50	05/29/24	V	SW8015D GRO
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**QA/QC Surrogates**

% 2,5-Dibromotoluene (FID)	88		%	50	05/29/24	V	70 - 130 %
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**Polychlorinated Biphenyls**

PCB-1016	ND	71	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1221	ND	71	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1232	ND	71	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1242	ND	71	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1248	ND	71	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1254	ND	71	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1260	ND	71	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1262	ND	71	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1268	ND	71	ug/Kg	2	05/30/24	SC	SW8082A

**QA/QC Surrogates**

% DCBP	128		%	2	05/30/24	SC	30 - 150 %
% DCBP (Confirmation)	119		%	2	05/30/24	SC	30 - 150 %
% TCMX	67		%	2	05/30/24	SC	30 - 150 %
% TCMX (Confirmation)	67		%	2	05/30/24	SC	30 - 150 %

Client ID: SB14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Pesticides - Soil</u></b>							
4,4' -DDD	ND	2.8	ug/Kg	2	05/30/24	AW	SW8081B
4,4' -DDE	ND	2.8	ug/Kg	2	05/30/24	AW	SW8081B
4,4' -DDT	ND	2.8	ug/Kg	2	05/30/24	AW	SW8081B
a-BHC	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
a-Chlordane	ND	7.1	ug/Kg	2	05/30/24	AW	SW8081B
Aldrin	ND	2.8	ug/Kg	2	05/30/24	AW	SW8081B
b-BHC	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
Chlordane	ND	71	ug/Kg	2	05/30/24	AW	SW8081B
d-BHC	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
Dieldrin	ND	2.8	ug/Kg	2	05/30/24	AW	SW8081B
Endosulfan I	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
Endosulfan II	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
Endosulfan sulfate	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
Endrin	ND	7.1	ug/Kg	2	05/30/24	AW	SW8081B
Endrin aldehyde	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
Endrin ketone	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
g-BHC	ND	2.8	ug/Kg	2	05/30/24	AW	SW8081B
g-Chlordane	ND	7.1	ug/Kg	2	05/30/24	AW	SW8081B
Heptachlor	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
Heptachlor epoxide	ND	14	ug/Kg	2	05/30/24	AW	SW8081B
Methoxychlor	ND	71	ug/Kg	2	05/30/24	AW	SW8081B
Toxaphene	ND	280	ug/Kg	2	05/30/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>							
% DCBP	90		%	2	05/30/24	AW	30 - 150 %
% DCBP (Confirmation)	115		%	2	05/30/24	AW	30 - 150 %
% TCMX	53		%	2	05/30/24	AW	30 - 150 %
% TCMX (Confirmation)	63		%	2	05/30/24	AW	30 - 150 %
<b><u>TCLP Herbicides</u></b>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/24	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	05/31/24	JRB	SW846 1311/8151
<b><u>QA/QC Surrogates</u></b>							
% DCAA	70		%	10	05/31/24	JRB	30 - 150 %
% DCAA (Confirmation)	60		%	10	05/31/24	JRB	30 - 150 %
<b><u>TCLP Pesticides</u></b>							
4,4' -DDD	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	05/29/24	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	05/29/24	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/29/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>							
%DCBP (Surrogate Rec)	64		%	10	05/29/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	57		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	58		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	59		%	10	05/29/24	AW	30 - 150 %
<b><u>TPH DRO (C10-C28)</u></b>							
Diesel Range Organics (C10-C28)	1200	530	mg/Kg	5	05/30/24	JRB	SW-846 8015
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	Interference		%	5	05/30/24	JRB	50 - 150 %
% Terphenyl (surr)	79		%	5	05/30/24	JRB	50 - 150 %
<b><u>Volatiles (TCL)</u></b>							
1,1,1-Trichloroethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromoethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloroethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloropropane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
2-Hexanone	ND	100	ug/kg	1	05/29/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	100	ug/kg	1	05/29/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/29/24	JLI	SW8260D
Benzene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Bromochloromethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Bromodichloromethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Bromoform	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Bromomethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Carbon Disulfide	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Carbon tetrachloride	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Chlorobenzene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Chloroethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Chloroform	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Chloromethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Cyclohexane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Dibromochloromethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Dichlorodifluoromethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Ethylbenzene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Isopropylbenzene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
m&p-Xylene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Methyl ethyl ketone	ND	120	ug/kg	1	05/29/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	40	ug/kg	1	05/29/24	JLI	SW8260D
Methylacetate	ND	16	ug/kg	1	05/29/24	JLI	SW8260D
Methylcyclohexane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Methylene chloride	ND	50	ug/kg	1	05/29/24	JLI	SW8260D
o-Xylene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Styrene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Tetrachloroethene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Toluene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Total Xylenes	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Trichloroethene	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorofluoromethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
Vinyl chloride	ND	20	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	91		%	1	05/29/24	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	05/29/24	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	05/29/24	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/29/24	JLI	70 - 130 %
<b><u>1,4-dioxane</u></b>							
1,4-dioxane	ND	100	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>TCLP Volatiles</u></b>							
1,1-Dichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	05/30/24	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	05/30/24	HM	70 - 130 %
% Dibromofluoromethane (10x)	89		%	10	05/30/24	HM	70 - 130 %
% Toluene-d8 (10x)	99		%	10	05/30/24	HM	70 - 130 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatile Library Search	Completed				05/29/24	JLI	
<b><u>Semivolatiles</u></b>							
1,1-Biphenyl	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2,3,4,6-tetrachlorophenol	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2,4,5-Trichlorophenol	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2,4,6-Trichlorophenol	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dichlorophenol	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dimethylphenol	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dinitrophenol	ND	1100	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dinitrotoluene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2,6-Dinitrotoluene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2-Chloronaphthalene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2-Chlorophenol	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2-Methylnaphthalene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	05/29/24	AW	SW8270E
2-Nitroaniline	ND	1100	ug/Kg	1	05/29/24	AW	SW8270E
2-Nitrophenol	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	690	ug/Kg	1	05/29/24	AW	SW8270E
3,3'-Dichlorobenzidine	ND	830	ug/Kg	1	05/29/24	AW	SW8270E
3-Nitroaniline	ND	1100	ug/Kg	1	05/29/24	AW	SW8270E
4,6-Dinitro-2-methylphenol	ND	2000	ug/Kg	1	05/29/24	AW	SW8270E
4-Bromophenyl phenyl ether	ND	690	ug/Kg	1	05/29/24	AW	SW8270E
4-Chloro-3-methylphenol	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
4-Chloroaniline	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
4-Chlorophenyl phenyl ether	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
4-Nitroaniline	ND	1100	ug/Kg	1	05/29/24	AW	SW8270E
4-Nitrophenol	ND	2000	ug/Kg	1	05/29/24	AW	SW8270E
Acenaphthene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Acenaphthylene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Acetophenone	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Anthracene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Atrazine	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Benz(a)anthracene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Benzaldehyde	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(a)pyrene	560	490	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(b)fluoranthene	560	490	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(ghi)perylene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(k)fluoranthene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Benzyl butyl phthalate	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-chloroethoxy)methane	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-chloroethyl)ether	ND	690	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-ethylhexyl)phthalate	1600	490	ug/Kg	1	05/29/24	AW	SW8270E
Caprolactam	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Carbazole	ND	690	ug/Kg	1	05/29/24	AW	SW8270E
Chrysene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	05/29/24	AW	SW8270E
Dibenzofuran	ND	490	ug/Kg	1	05/29/24	AW	SW8270E

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Dimethylphthalate	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Di-n-butylphthalate	ND	1400	ug/Kg	1	05/29/24	AW	SW8270E
Di-n-octylphthalate	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Fluoranthene	530	490	ug/Kg	1	05/29/24	AW	SW8270E
Fluorene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorobenzene	ND	330	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorobutadiene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorocyclopentadiene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Hexachloroethane	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Indeno(1,2,3-cd)pyrene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Isophorone	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
Naphthalene	600	490	ug/Kg	1	05/29/24	AW	SW8270E
Nitrobenzene	ND	490	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodimethylamine	ND	690	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodi-n-propylamine	ND	350	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodiphenylamine	ND	690	ug/Kg	1	05/29/24	AW	SW8270E
Pentachlorophenol	ND	690	ug/Kg	1	05/29/24	AW	SW8270E
Phenanthrene	490	490	ug/Kg	1	05/29/24	AW	SW8270E
Phenol	ND	330	ug/Kg	1	05/29/24	AW	SW8270E
Pyrene	500	490	ug/Kg	1	05/29/24	AW	SW8270E
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	66		%	1	05/29/24	AW	30 - 130 %
% 2-Fluorobiphenyl	62		%	1	05/29/24	AW	30 - 130 %
% 2-Fluorophenol	63		%	1	05/29/24	AW	30 - 130 %
% Nitrobenzene-d5	75		%	1	05/29/24	AW	30 - 130 %
% Phenol-d5	66		%	1	05/29/24	AW	30 - 130 %
% Terphenyl-d14	47		%	1	05/29/24	AW	30 - 130 %
<b><u>TCLP Acid/Base-Neutral</u></b>							
1,4-Dichlorobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	57		%	1	06/02/24	MR	15 - 110 %
% 2-Fluorobiphenyl	67		%	1	06/02/24	MR	30 - 130 %
% 2-Fluorophenol	58		%	1	06/02/24	MR	15 - 110 %
% Nitrobenzene-d5	74		%	1	06/02/24	MR	30 - 130 %
% Phenol-d5	55		%	1	06/02/24	MR	15 - 110 %
% Terphenyl-d14	78		%	1	06/02/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatile Library Search	Completed				05/29/24	E	

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.

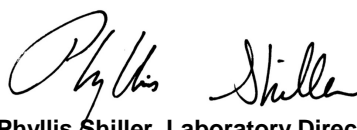
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

**Semi-Volatile Comment:**

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

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

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



**Phyllis Shiller, Laboratory Director**

**June 12, 2024**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**





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



# Analysis Report

June 12, 2024

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

## Sample Information

Matrix: SOIL  
 Location Code: AES-INC  
 Rush Request: Standard  
 P.O.#: 0942

## Custody Information

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

## Date

05/24/24  
 05/28/24

## Time

10:55  
 17:28

## Laboratory Data

SDG ID: GCQ81819  
 Phoenix ID: CQ81823

Project ID: HWK100SBC-BROOKLYN BUS ROUTES  
 Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/29/24	TH	SW6010D
Aluminum	1330	5.6	mg/Kg	1	05/29/24	TH	SW6010D
Arsenic	< 0.74	0.74	mg/Kg	1	05/29/24	TH	SW6010D
Barium	15.0	0.37	mg/Kg	1	05/29/24	TH	SW6010D
Beryllium	< 0.30	0.30	mg/Kg	1	05/29/24	TH	SW6010D
Calcium	773	5.6	mg/Kg	1	05/29/24	TH	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	05/29/24	TH	SW6010D
Cobalt	1.24	0.37	mg/Kg	1	05/29/24	TH	SW6010D
Chromium	6.22	0.37	mg/Kg	1	05/29/24	TH	SW6010D
Copper	5.3	0.7	mg/kg	1	05/29/24	TH	SW6010D
Iron	3040	5.6	mg/Kg	1	05/29/24	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/30/24	ZT	SW7471B
Potassium	326	5.6	mg/Kg	1	05/29/24	TH	SW6010D
Magnesium	625	5.6	mg/Kg	1	05/29/24	TH	SW6010D
Manganese	28.8	0.37	mg/Kg	1	05/29/24	TH	SW6010D
Sodium	80.5	5.6	mg/Kg	1	05/29/24	TH	SW6010D
Nickel	3.70	0.37	mg/Kg	1	05/29/24	TH	SW6010D
Lead	13.2	0.37	mg/Kg	1	05/29/24	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/29/24	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Barium	0.76	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/30/24	ZT	SW846 1311/7470
TCLP Lead	0.68	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/24	CPP	SW846 1311/6010D

Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Thallium	< 3.3	3.3	mg/Kg	1	05/29/24	TH	SW6010D
TCLP Metals Digestion	Completed				05/29/24	AL/AL	SW3010A
Vanadium	6.34	0.37	mg/Kg	1	05/29/24	TH	SW6010D
Zinc	17.3	0.7	mg/Kg	1	05/29/24	TH	SW6010D
Percent Solid	91		%		05/28/24	CV	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	05/28/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	05/31/24	G	SW1010B
Ignitability	Passed	140	degree F	1	05/31/24	G	SW846-Ignit
pH at 25C - Soil	7.77	1.00	pH Units	1	05/28/24 22:16	MW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/30/24	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/31/24	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/31/24	NP/GD	SW846-React
Total Cyanide (SW9010C Distill.)	0.61	0.50	mg/Kg	1	05/30/24	D/S/G	SW9012B
Mercury Digestion	Completed				05/29/24	AL/AL	SW7471B
Extraction of NY ETPH	Completed				05/29/24	R/H/U	SW3546
Soil Extraction for PCB	Completed				05/29/24	C/U	SW3546
Soil Extraction for Pesticides	Completed				05/29/24	C/U	SW3546
Soil Extraction for SVOA	Completed				05/28/24	H/A	SW3546
TCLP Digestion Mercury	Completed				05/29/24	AL/AL	SW7470A
TCLP Herbicides Extraction	Completed				05/30/24	CV/D	SW8150 MOD
TCLP Extraction for Metals	Completed				05/28/24	AL	SW1311
TCLP Extraction for Organics	Completed				05/28/24	AL	SW1311
TCLP Pesticides Extraction	Completed				05/29/24	CV/CV	SW3510C
TCLP Semi-Volatile Extraction	Completed				05/31/24	LB1/LB1	SW3510C
TCLP Extraction Volatiles	Completed				05/28/24	cv	SW1311
Total Metals Digest	Completed				05/28/24	J/AG	SW3050B

**Gasoline Range Hydrocarbons (C6-C10)**

GRO (C6-C10)	ND	6.5	mg/Kg	50	05/29/24	V	SW8015D GRO
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**QA/QC Surrogates**

% 2,5-Dibromotoluene (FID)	92		%	50	05/29/24	V	70 - 130 %
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**Polychlorinated Biphenyls**

PCB-1016	ND	72	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1221	ND	72	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1232	ND	72	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1242	ND	72	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1248	ND	72	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1254	ND	72	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1260	ND	72	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1262	ND	72	ug/Kg	2	05/30/24	SC	SW8082A
PCB-1268	ND	72	ug/Kg	2	05/30/24	SC	SW8082A

**QA/QC Surrogates**

% DCBP	116		%	2	05/30/24	SC	30 - 150 %
% DCBP (Confirmation)	117		%	2	05/30/24	SC	30 - 150 %
% TCMX	79		%	2	05/30/24	SC	30 - 150 %
% TCMX (Confirmation)	80		%	2	05/30/24	SC	30 - 150 %

Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Pesticides - Soil</u></b>							
4,4' -DDD	ND	2.2	ug/Kg	2	05/30/24	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	05/30/24	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	05/30/24	AW	SW8081B
a-BHC	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
a-Chlordane	ND	3.6	ug/Kg	2	05/30/24	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	05/30/24	AW	SW8081B
b-BHC	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/30/24	AW	SW8081B
d-BHC	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/30/24	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/30/24	AW	SW8081B
g-Chlordane	ND	3.6	ug/Kg	2	05/30/24	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/30/24	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/30/24	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/30/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>							
% DCBP	96		%	2	05/30/24	AW	30 - 150 %
% DCBP (Confirmation)	109		%	2	05/30/24	AW	30 - 150 %
% TCMX	77		%	2	05/30/24	AW	30 - 150 %
% TCMX (Confirmation)	109		%	2	05/30/24	AW	30 - 150 %
<b><u>TCLP Herbicides</u></b>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/24	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	05/31/24	JRB	SW846 1311/8151
<b><u>QA/QC Surrogates</u></b>							
% DCAA	69		%	10	05/31/24	JRB	30 - 150 %
% DCAA (Confirmation)	60		%	10	05/31/24	JRB	30 - 150 %
<b><u>TCLP Pesticides</u></b>							
4,4' -DDD	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	05/29/24	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	05/29/24	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	05/29/24	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/29/24	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/29/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>							
%DCBP (Surrogate Rec)	64		%	10	05/29/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	60		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	69		%	10	05/29/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	71		%	10	05/29/24	AW	30 - 150 %
<b><u>TPH DRO (C10-C28)</u></b>							
Diesel Range Organics (C10-C28)	ND	54	mg/Kg	1	05/30/24	JRB	SW-846 8015
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	90		%	1	05/30/24	JRB	50 - 150 %
% Terphenyl (surr)	95		%	1	05/30/24	JRB	50 - 150 %
<b><u>Volatiles (TCL)</u></b>							
1,1,1-Trichloroethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,1-Dichloroethene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dibromoethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloroethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,2-Dichloropropane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
2-Hexanone	ND	39	ug/kg	1	05/29/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	39	ug/kg	1	05/29/24	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/29/24	JLI	SW8260D
Benzene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Bromochloromethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Bromodichloromethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Bromoform	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Bromomethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Carbon Disulfide	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Carbon tetrachloride	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Chlorobenzene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Chloroethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Chloroform	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Chloromethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D

Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Cyclohexane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Dibromochloromethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Dichlorodifluoromethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Ethylbenzene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Isopropylbenzene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
m&p-Xylene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Methyl ethyl ketone	ND	46	ug/kg	1	05/29/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	15	ug/kg	1	05/29/24	JLI	SW8260D
Methylacetate	ND	6.2	ug/kg	1	05/29/24	JLI	SW8260D
Methylcyclohexane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Methylene chloride	ND	39	ug/kg	1	05/29/24	JLI	SW8260D
o-Xylene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Styrene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Tetrachloroethene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Toluene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Total Xylenes	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Trichloroethene	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorofluoromethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
Vinyl chloride	ND	7.7	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	93		%	1	05/29/24	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/29/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	05/29/24	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/29/24	JLI	70 - 130 %
<b><u>1,4-dioxane</u></b>							
1,4-dioxane	ND	100	ug/kg	1	05/29/24	JLI	SW8260D
<b><u>TCLP Volatiles</u></b>							
1,1-Dichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/30/24	HM	SW846 1311/8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	05/30/24	HM	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	05/30/24	HM	70 - 130 %
% Dibromofluoromethane (10x)	90		%	10	05/30/24	HM	70 - 130 %
% Toluene-d8 (10x)	96		%	10	05/30/24	HM	70 - 130 %

Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatile Library Search	Completed				05/29/24	JLI	
<b>Semivolatiles</b>							
1,1-Biphenyl	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dinitrophenol	ND	580	ug/Kg	1	05/29/24	AW	SW8270E
2,4-Dinitrotoluene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2,6-Dinitrotoluene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2-Chloronaphthalene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
2-Nitroaniline	ND	580	ug/Kg	1	05/29/24	AW	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/29/24	AW	SW8270E
3,3'-Dichlorobenzidine	ND	430	ug/Kg	1	05/29/24	AW	SW8270E
3-Nitroaniline	ND	580	ug/Kg	1	05/29/24	AW	SW8270E
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	05/29/24	AW	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/29/24	AW	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
4-Chloroaniline	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
4-Nitroaniline	ND	580	ug/Kg	1	05/29/24	AW	SW8270E
4-Nitrophenol	ND	1000	ug/Kg	1	05/29/24	AW	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Anthracene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Atrazine	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Benz(a)anthracene	560	250	ug/Kg	1	05/29/24	AW	SW8270E
Benzaldehyde	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(a)pyrene	600	250	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(b)fluoranthene	680	250	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(ghi)perylene	310	250	ug/Kg	1	05/29/24	AW	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/29/24	AW	SW8270E
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Caprolactam	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Carbazole	ND	360	ug/Kg	1	05/29/24	AW	SW8270E
Chrysene	550	250	ug/Kg	1	05/29/24	AW	SW8270E
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	05/29/24	AW	SW8270E
Dibenzofuran	ND	250	ug/Kg	1	05/29/24	AW	SW8270E

Ver 2

Client ID: SB15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Di-n-butylphthalate	ND	720	ug/Kg	1	05/29/24	AW	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Fluoranthene	900	250	ug/Kg	1	05/29/24	AW	SW8270E
Fluorene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorobutadiene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Indeno(1,2,3-cd)pyrene	370	250	ug/Kg	1	05/29/24	AW	SW8270E
Isophorone	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Nitrobenzene	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodimethylamine	ND	360	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	05/29/24	AW	SW8270E
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	05/29/24	AW	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/29/24	AW	SW8270E
Phenanthrene	600	250	ug/Kg	1	05/29/24	AW	SW8270E
Phenol	ND	250	ug/Kg	1	05/29/24	AW	SW8270E
Pyrene	830	250	ug/Kg	1	05/29/24	AW	SW8270E
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	70		%	1	05/29/24	AW	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	05/29/24	AW	30 - 130 %
% 2-Fluorophenol	69		%	1	05/29/24	AW	30 - 130 %
% Nitrobenzene-d5	83		%	1	05/29/24	AW	30 - 130 %
% Phenol-d5	72		%	1	05/29/24	AW	30 - 130 %
% Terphenyl-d14	59		%	1	05/29/24	AW	30 - 130 %
<b><u>TCLP Acid/Base-Neutral</u></b>							
1,4-Dichlorobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	06/02/24	MR	SW-846 1311/8270
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	58		%	1	06/02/24	MR	15 - 110 %
% 2-Fluorobiphenyl	68		%	1	06/02/24	MR	30 - 130 %
% 2-Fluorophenol	60		%	1	06/02/24	MR	15 - 110 %
% Nitrobenzene-d5	74		%	1	06/02/24	MR	30 - 130 %
% Phenol-d5	57		%	1	06/02/24	MR	15 - 110 %
% Terphenyl-d14	80		%	1	06/02/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatile Library Search	Completed				05/29/24	E	

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

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

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

**Comments:**

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

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

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

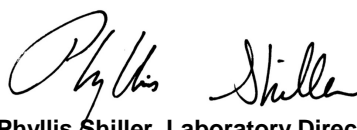
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

**Volatile Comment:**

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

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

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



**Phyllis Shiller, Laboratory Director**

**June 12, 2024**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

SB11
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Lab Name: Phoenix Environmental Labs

Client: AES-INC

Lab Code: Phoenix Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: GCQ8181:

Matrix:(soil/water) SOIL

Lab Sample ID: CQ81819

Sample wt/vol: 5.33 (g/mL) \_g

Lab File ID: 0528\_31.D

Level: (low/med) Low

Date Received: 05/28/24

% Moisture: not dec. 15

Date Analyzed: 05/29/24

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: \_\_\_\_\_ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): \_\_\_\_\_ 5000

CONCENTRATION UNITS:

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.  
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified  
 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  CQ81820 BLK
------------------------------

Lab Name: Phoenix Environmental Labs

Client: \_\_\_\_\_

Lab Code: Phoenix Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix:(soil/water) Soil

Lab Sample ID: CQ81820 BLK

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

Lab File ID: 0529\_09.D

Level: (low/med) Low

Date Received: 05/28/24

% Moisture: not dec. n.a.

Date Analyzed: 05/29/24

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: \_\_\_\_\_ 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): \_\_\_\_\_ 5000

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.  
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified  
 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.: GCQ8181!

Matrix:(soil/water) SOIL

Lab Sample ID: CQ81820

Sample wt/vol: 4.32 (g/mL) g

Lab File ID: 0528\_32.D

Level: (low/med) Low

Date Received: 05/28/24

% Moisture: not dec. 17

Date Analyzed: 05/29/24

GC Column: RTX-VMS ID: 0.18mm

Dilution Factor: 1

Purge Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

Number TICs found: 13 (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
108-67-8	1,3,5-Trimethylbenzene	6.416	2.7	Q
95-63-6	1,2,4-Trimethylbenzene	6.72	9.3	Q
526-73-8	1,2,3-Trimethylbenzene	7.061	7.9	Q
001120-21-4	Undecane	7.203	14	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	7.916	15	JN
	unknown	8.068	22	J
003333-13-9	Benzene, 1-methyl-4-(2-propenyl)-	8.078	16	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	8.220	23	JN
	unknown	8.335	20	J
002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-methyl-	9.038	27	JN
001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	9.263	13	JN
000629-59-4	Tetradecane	9.389	13	JN
000629-62-9	Pentadecane	9.934	13	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.  
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified  
 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: <u>Phoenix Environmental Labs</u>	Client: <u>AES-INC</u>
Lab Code: <u>Phoenix</u> Case No.: _____	SAS No.: _____ SDG No.: <u>GCQ8181</u>
Matrix:(soil/water) <u>SOIL</u>	Lab Sample ID: <u>CQ81821</u>
Sample wt/vol: <u>3</u> (g/mL) <u>g</u>	Lab File ID: <u>0528_33.D</u>
Level: (low/med) <u>Low</u>	Date Received: <u>05/28/24</u>
% Moisture: not dec. <u>18</u>	Date Analyzed: <u>05/29/24</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.18mm</u>	Dilution Factor: <u>1</u>
Purge Volume: <u>5000</u> (uL)	Soil Aliquot Vol (uL): <u>5000</u>
CONCENTRATION UNITS:	
Number TICs found: <u>0</u>	(ug/L or ug/KG) <u>ug/Kg</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.  
 N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified  
 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.: GCQ8181  
Matrix:(soil/water) SOIL Lab Sample ID: CQ81822  
Sample wt/vol: 2.66 (g/mL) \_g\_ Lab File ID: 0528\_34.D  
Level: (low/med) Low Date Received: 05/28/24  
% Moisture: not dec. 53 Date Analyzed: 05/29/24  
GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1  
Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000  
Number TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
003728-54-9	Cyclohexane, 1-ethyl-2-methyl-	5.494	21	JN
003868-64-2	Pentalene, octahydro-2-methyl-	5.656	25	JN
	unknown	5.740	23	J
006783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	6.091	42	JN
020536-41-8	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-, exo-	6.338	71	JN
	unknown	6.374	27	J
	unknown	6.574	35	J
	unknown	7.622	22	J

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.  
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified  
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.: GCQ81819

Matrix:(soil/water) SOIL

Lab Sample ID: CQ81819

Sample wt/vol: 15.33 (g/mL) g

Lab File ID: 0528\_27.D

Level: (low/med) Low

Date Received: 05/28/24

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

Date Extracted: 05/29/24

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

Date Analyzed: 5/29/2024

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

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

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.325	880	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.125	1200	JNC
007206-21-5	5-Octadecene, (E)-	7.236	840	JN
000057-10-3	n-Hexadecanoic acid	7.854	380	JN
	unknown	7.895	470	J
003674-66-6	Phenanthrene, 2,5-dimethyl-	8.295	360	JN
005737-13-3	Cyclopenta(def)phenanthrenone	8.366	340	JN
1000130-97-9	E-15-Heptadecenal	8.713	880	JN
002541-69-7	Benz[a]anthracene, 7-methyl-	10.977	380	JN
000192-97-2	Benzo[e]pyrene	13.130	670	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.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

SB12
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Lab Name: Phoenix Environmental Labs

Client: AES-INC

Lab Code: Phoenix Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: GCQ8181!

Matrix:(soil/water) SOIL

Lab Sample ID: CQ81820

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

Lab File ID: 0528\_28.D

Level: (low/med) Low

Date Received: 05/28/24

% Moisture: not dec. 17 decanted:(Y/N) NA

Date Extracted: 05/29/24

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

Date Analyzed: 5/29/2024

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.325	1200	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.125	1200	JNC
007206-21-5	5-Octadecene, (E)-	7.236	1100	JN
	Phenanthrene, 2-methyl- Isomer	7.801	800	JN
002531-84-2	Phenanthrene, 2-methyl-	7.825	930	JN
000832-69-9	Phenanthrene, 1-methyl-	7.866	700	JN
	unknown	7.901	1500	J
000084-65-1	9,10-Anthracenedione	8.089	620	JN
	unknown	8.583	710	J
000207-08-9	Benzo[k]fluoranthene	12.718	1300	JN
000192-97-2	Benzo[e]pyrene	13.177	3800	JN
	Benzo[e]pyrene Isomer	13.542	1300	JN
000053-70-3	Dibenz[a,h]anthracene	16.965	780	JN
000135-48-8	Pentacene	17.024	590	JN
000191-26-4	Dibenzo[def,mno]chrysene	17.395	850	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.: GCQ81819

Matrix:(soil/water) SOIL

Lab Sample ID: CQ81821

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

Lab File ID: 0528\_24.D

Level: (low/med) Low

Date Received: 05/28/24

% Moisture: not dec. 18 decanted:(Y/N) NA

Date Extracted: 05/29/24

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

Date Analyzed: 5/29/2024

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.325	1000	JNA
000099-87-6	Benzene, 1-methyl-4-(1-methylethyl)	3.490	930	JNC
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.125	960	JNC
	unknown	7.213	1100	J
000057-10-3	n-Hexadecanoic acid	7.860	1400	JN
	unknown	8.025	1100	J
032624-67-2	10,18-Bisnorabieta-8,11,13-triene	8.295	1300	JN
000483-65-8	Phenanthrene, 1-methyl-7-(1-methyl)	9.001	12000	JN
	unknown	9.777	1600	J
001740-19-8	1-Phenanthrenecarboxylic acid, 1,2	9.972	1600	JN
015600-08-5	Cholestan-3-one	16.506	1600	JN
000083-46-5	.beta.-Sitosterol	17.583	800	JN
	unknown	17.842	960	J
	unknown	17.906	1100	J
	unknown	18.483	630	J

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.  
Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.
- 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.: GCQ8181

Matrix:(soil/water) SOIL

Lab Sample ID: CQ81823

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

Lab File ID: 0528\_25.D

Level: (low/med) Low

Date Received: 05/28/24

% Moisture: not dec. 9 decanted:(Y/N) NA

Date Extracted: 05/29/24

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

Date Analyzed: 5/29/2024

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 1 (uL)

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.325	680	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.125	1100	JNC
000112-88-9	1-Octadecene	7.236	830	JN
000057-10-3	n-Hexadecanoic acid	7.854	390	JN
000192-97-2	Benzo[e]pyrene	13.124	460	JN

FORM I SEMIVOA-TIC

- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.
- 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.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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# QA/QC Report

June 12, 2024

## QA/QC Data

SDG I.D.: GCO81819

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCS %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 733349 (mg/L), QC Sample No: CQ81241 (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	104			109			80 - 120	20
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Comment:

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

QA/QC Batch 733350 (mg/kg), QC Sample No: CQ81781 2X (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)

Mercury - Soil	BRL	0.03	0.04	0.02	NC	110	110	0.0	109	115	5.4	70 - 130	30
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Comment:

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

QA/QC Batch 733354 (mg/L), QC Sample No: CQ79288 (CQ81819, CQ81820, CQ81822, CQ81823)

### ICP Metals - TCLP Extraction

Arsenic	BRL	0.10	<0.10	<0.10	NC	111	110	0.9	104			80 - 120	20
Barium	BRL	0.10	0.54	0.40	NC	104	103	1.0	100			80 - 120	20
Cadmium	BRL	0.050	<0.050	<0.050	NC	105	104	1.0	101			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	103	102	1.0	101			80 - 120	20
Lead	BRL	0.10	<0.10	<0.10	NC	105	104	1.0	102			80 - 120	20
Selenium	BRL	0.10	<0.10	<0.10	NC	112	111	0.9	102			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	112	111	0.9	106			80 - 120	20

Comment:

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

QA/QC Batch 733297 (mg/kg), QC Sample No: CQ81611 (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)

### ICP Metals - Soil

Aluminum	BRL	5.0	5820	5970	2.50	83.2	87.0	4.5	NC			75 - 125	35
Antimony	BRL	3.3	3.7	4.9	NC	93.9	97.4	3.7	89.8			75 - 125	35
Arsenic	BRL	0.67	2.40	2.48	NC	89.5	92.7	3.5	87.7			75 - 125	35
Barium	BRL	0.33	43.1	42.1	2.30	94.6	96.1	1.6	93.8			75 - 125	35
Beryllium	BRL	0.27	<0.27	<0.31	NC	93.8	97.5	3.9	93.7			75 - 125	35
Cadmium	BRL	0.33	0.75	0.65	NC	92.7	93.4	0.8	85.6			75 - 125	35
Calcium	BRL	5.0	7120	7430	4.30	94.0	97.6	3.8	NC			75 - 125	35
Chromium	BRL	0.33	31.2	185	142	93.8	97.7	4.1	116			75 - 125	35
Cobalt	BRL	0.33	27.7	520	180	94.4	97.3	3.0	91.0			75 - 125	35
Copper	BRL	0.67	395	459	15.0	95.1	98.6	3.6	71.6			75 - 125	35
Iron	BRL	5.0	18000	15300	16.2	88.5	91.2	3.0	NC			75 - 125	35
Lead	BRL	0.33	211	208	1.40	88.9	91.0	2.3	74.1			75 - 125	35
Magnesium	BRL	5.0	3020	2770	8.60	86.3	89.4	3.5	NC			75 - 125	35
Manganese	BRL	0.33	230	245	6.30	90.4	102	12.1	>130			75 - 125	35
Nickel	BRL	0.33	81.5	121	39.0	96.6	100	3.5	99.1			75 - 125	35
Potassium	BRL	5.0	1680	1490	12.0	95.3	97.1	1.9	>130			75 - 125	35
Selenium	BRL	1.3	<1.3	<1.6	NC	82.2	84.3	2.5	75.7			75 - 125	35
Silver	BRL	0.33	<0.34	<0.39	NC	100	103	3.0	98.4			75 - 125	35
Sodium	BRL	5.0	1140	1200	5.10	101	101	0.0	NC			75 - 125	35
Thallium	BRL	3.0	<3.0	<3.5	NC	101	99.6	1.4	96.4			75 - 125	35
Vanadium	BRL	0.33	36.2	28.2	24.8	93.6	97.7	4.3	93.7			75 - 125	35

## QA/QC Data

SDG I.D.: GCO81819

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Zinc	BRL	0.67	178	186	4.40	90.8	93.5	2.9	76.1			75 - 125	35

Comment:

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

QA/QC Batch 735086 (mg/L), QC Sample No: CQ90577 (CQ81821)

### ICP Metals - TCLP Extraction

Arsenic	BRL	0.04	<0.04	<0.04	NC	108	108	0.0	110			80 - 120	20
Barium	BRL	0.01	0.28	0.29	3.50	101	101	0.0	105			80 - 120	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	98.8	98.9	0.1	100			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	99.6	99.9	0.3	101			80 - 120	20
Lead	BRL	0.010	0.096	0.096	0	98.8	99.5	0.7	101			80 - 120	20
Selenium	BRL	0.04	<0.04	<0.04	NC	109	110	0.9	110			80 - 120	20
Silver	BRL	0.010	<0.010	<0.010	NC	105	105	0.0	107			80 - 120	20

Comment:

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

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

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



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# QA/QC Report

June 12, 2024

## QA/QC Data

SDG I.D.: GCO81819

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 733406 (mg/Kg), QC Sample No: CQ76923 50X (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	1.47	1.44	NC	94.0			93.3			80 - 120	30
QA/QC Batch 733357 (mg/Kg), QC Sample No: CQ80533 5X (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)													
Reactivity Cyanide	BRL	5	<5	<5.2	NC	97.8						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	96.0						80 - 120	30
QA/QC Batch 733877 (Degree F), QC Sample No: CQ79928 (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)													
Flash Point			>200	>200	NC	103						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 733335 (PH), QC Sample No: CQ81250 (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)													
pH			6.83	6.79	0.60	101						85 - 115	20



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# QA/QC Report

June 12, 2024

## QA/QC Data

SDG I.D.: GCO81819

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

QA/QC Batch 733478 (mg/Kg), QC Sample No: CQ81819 (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)

### TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	96	106	9.9	79	75	5.2	30 - 130	30
% COD (surr)	100	%	61	60	1.7	67	50	29.1	50 - 150	30
% Terphenyl (surr)	97	%	87	88	1.1	64	67	4.6	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 733628 (mg/Kg), QC Sample No: CQ81819 50X (CQ81819 (50X) , CQ81820 (50X) , CQ81821 (50X) , CQ81822 (50X) , CQ81823 (50X) )

### Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	5.0	102	101	1.0	104	102	1.9	70 - 130	30
% 2,5-Dibromotoluene (FID)	89	%	91	93	2.2	89	90	1.1	70 - 130	30

QA/QC Batch 733576 (ug/L), QC Sample No: CQ82290 10X (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)

### Chlorinated Herbicides

2,4,5-TP (Silvex)	ND	2.5	88	95	7.7				40 - 140	20
2,4-D	ND	5.0	92	98	6.3				40 - 140	20
% DCAA (Surrogate Rec)	138	%	140	143	2.1				30 - 150	20
% DCAA (Surrogate Rec) (Confirm	126	%	124	130	4.7				30 - 150	20

Comment:

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

QA/QC Batch 733450 (ug/Kg), QC Sample No: CQ76923 2X (CQ81822, CQ81823)

### Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	98	93	5.2	57	79	32.4	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	95	94	1.1	53	70	27.6	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	86	%	110	107	2.8	62	79	24.1	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	96	%	123	119	3.3	64	82	24.7	30 - 150	30
% TCMX (Surrogate Rec)	76	%	94	94	0.0	57	76	28.6	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	79	%	103	100	3.0	62	82	27.8	30 - 150	30

QA/QC Batch 733312 (ug/Kg), QC Sample No: CQ81783 2X (CQ81819, CQ81820, CQ81821)

### Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	90	95	5.4	93	80	15.0	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30

## QA/QC Data

SDG I.D.: GCO81819

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
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	89	91	2.2	95	71	28.9	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	79	%	94	96	2.1	94	72	26.5	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	88	%	105	109	3.7	102	80	24.2	30 - 150	30
% TCMX (Surrogate Rec)	70	%	83	84	1.2	86	72	17.7	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	74	%	89	93	4.4	92	80	14.0	30 - 150	30

QA/QC Batch 733452 (ug/Kg), QC Sample No: CQ76923 2X (CQ81822, CQ81823)

### Pesticides - Soil

4,4' -DDD	ND	1.7	109	114	4.5	102	92	10.3	40 - 140	30
4,4' -DDE	ND	1.7	103	108	4.7	97	74	26.9	40 - 140	30
4,4' -DDT	ND	1.7	95	87	8.8	86	78	9.8	40 - 140	30
a-BHC	ND	1.0	91	96	5.3	54	66	20.0	40 - 140	30
a-Chlordane	ND	3.3	89	92	3.3	55	64	15.1	40 - 140	30
Aldrin	ND	1.0	86	90	4.5	60	52	14.3	40 - 140	30
b-BHC	ND	1.0	88	90	2.2	59	58	1.7	40 - 140	30
Chlordane	ND	3.3	89	92	3.3	76	67	12.6	40 - 140	30
d-BHC	ND	3.3	93	96	3.2	64	58	9.8	40 - 140	30
Dieldrin	ND	1.0	88	93	5.5	66	66	0.0	40 - 140	30
Endosulfan I	ND	3.3	90	94	4.3	51	56	9.3	40 - 140	30
Endosulfan II	ND	3.3	84	91	8.0	69	57	19.0	40 - 140	30
Endosulfan sulfate	ND	3.3	105	97	7.9	55	70	24.0	40 - 140	30
Endrin	ND	3.3	86	89	3.4	64	53	18.8	40 - 140	30
Endrin aldehyde	ND	3.3	78	84	7.4	55	52	5.6	40 - 140	30
Endrin ketone	ND	3.3	103	100	3.0	69	64	7.5	40 - 140	30
g-BHC	ND	1.0	98	101	3.0	62	78	22.9	40 - 140	30
g-Chlordane	ND	3.3	89	92	3.3	76	67	12.6	40 - 140	30
Heptachlor	ND	3.3	76	78	2.6	44	55	22.2	40 - 140	30
Heptachlor epoxide	ND	3.3	83	87	4.7	66	56	16.4	40 - 140	30
Methoxychlor	ND	3.3	103	95	8.1	106	80	28.0	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	104	%	84	84	0.0	71	51	32.8	30 - 150	30
% DCBP (Confirmation)	73	%	75	81	7.7	115	55	70.6	30 - 150	30
% TCMX	73	%	79	80	1.3	54	56	3.6	30 - 150	30
% TCMX (Confirmation)	73	%	76	76	0.0	66	56	16.4	30 - 150	30

QA/QC Batch 733366 (ug/L), QC Sample No: CQ81008 10X (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)

### Pesticides

4,4' -DDD	ND	0.25	75	79	5.2	80			40 - 140	20
4,4' -DDE	ND	0.25	83	82	1.2	85			40 - 140	20
4,4' -DDT	ND	0.25	95	96	1.0	98			40 - 140	20
a-BHC	ND	0.15	79	80	1.3	85			40 - 140	20
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20
Aldrin	ND	0.15	82	81	1.2	85			40 - 140	20
b-BHC	ND	0.15	87	86	1.2	89			40 - 140	20
Chlordane	ND	5.0	85	85	0.0	87			40 - 140	20
d-BHC	ND	0.50	105	103	1.9	105			40 - 140	20
Dieldrin	ND	0.15	98	96	2.1	98			40 - 140	20
Endosulfan I	ND	0.50	98	98	0.0	105			40 - 140	20
Endosulfan II	ND	0.50	122	117	4.2	120			40 - 140	20



## QA/QC Data

SDG I.D.: GCO81819

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Endosulfan sulfate	ND	0.50	102	103	1.0	104			40 - 140	20
Endrin	ND	0.50	102	101	1.0	103			40 - 140	20
Endrin aldehyde	ND	0.50	101	101	0.0	103			40 - 140	20
g-BHC	ND	0.15	87	86	1.2	89			40 - 140	20
Heptachlor	ND	0.50	92	92	0.0	94			40 - 140	20
Heptachlor epoxide	ND	0.50	90	89	1.1	91			40 - 140	20
Methoxychlor	ND	0.50	87	86	1.2	92			40 - 140	20
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20
% DCBP	74	%	83	80	3.7	77			30 - 150	20
% DCBP (Confirmation)	72	%	79	77	2.6	75			30 - 150	20
% TCMX	59	%	67	66	1.5	68			30 - 150	20
% TCMX (Confirmation)	63	%	69	67	2.9	70			30 - 150	20

QA/QC Batch 733313 (ug/Kg), QC Sample No: CQ81783 2X (CQ81819, CQ81820, CQ81821)

### Pesticides - Soil

4,4' -DDD	ND	1.7	103	104	1.0	70	90	25.0	40 - 140	30
4,4' -DDE	ND	1.7	96	95	1.0	71	91	24.7	40 - 140	30
4,4' -DDT	ND	1.7	81	80	1.2	62	77	21.6	40 - 140	30
a-BHC	ND	1.0	82	83	1.2	50	54	7.7	40 - 140	30
a-Chlordane	ND	3.3	82	82	0.0	47	64	30.6	40 - 140	30
Aldrin	ND	1.0	79	78	1.3	55	69	22.6	40 - 140	30
b-BHC	ND	1.0	82	81	1.2	65	74	12.9	40 - 140	30
Chlordane	ND	33	82	81	1.2	53	67	23.3	40 - 140	30
d-BHC	ND	3.3	78	83	6.2	26	42	47.1	40 - 140	30
Dieldrin	ND	1.0	82	81	1.2	65	77	16.9	40 - 140	30
Endosulfan I	ND	3.3	81	80	1.2	53	66	21.8	40 - 140	30
Endosulfan II	ND	3.3	75	75	0.0	52	65	22.2	40 - 140	30
Endosulfan sulfate	ND	3.3	85	85	0.0	65	70	7.4	40 - 140	30
Endrin	ND	3.3	81	80	1.2	60	72	18.2	40 - 140	30
Endrin aldehyde	ND	3.3	75	75	0.0	45	52	14.4	40 - 140	30
Endrin ketone	ND	3.3	88	89	1.1	75	84	11.3	40 - 140	30
g-BHC	ND	1.0	88	87	1.1	61	76	21.9	40 - 140	30
g-Chlordane	ND	3.3	82	81	1.2	53	67	23.3	40 - 140	30
Heptachlor	ND	3.3	74	72	2.7	52	64	20.7	40 - 140	30
Heptachlor epoxide	ND	3.3	75	74	1.3	60	75	22.2	40 - 140	30
Methoxychlor	ND	3.3	94	90	4.3	86	94	8.9	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	76	%	77	77	0.0	58	71	20.2	30 - 150	30
% DCBP (Confirmation)	71	%	71	71	0.0	53	66	21.8	30 - 150	30
% TCMX	70	%	74	72	2.7	58	66	12.9	30 - 150	30
% TCMX (Confirmation)	67	%	68	68	0.0	54	60	10.5	30 - 150	30

QA/QC Batch 733309 (ug/kg), QC Sample No: CQ81783 (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)

### Semivolatiles - Soil

1,1-Biphenyl	ND	230	67	70	4.4	69	63	9.1	40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	68	70	2.9	68	62	9.2	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	58	62	6.7	60	54	10.5	40 - 140	30
2,3,4,6-tetrachlorophenol	ND	230	89	89	0.0	81	76	6.4	30 - 130	30
2,4,5-Trichlorophenol	ND	230	88	89	1.1	85	81	4.8	40 - 140	30
2,4,6-Trichlorophenol	ND	130	90	92	2.2	86	80	7.2	30 - 130	30
2,4-Dichlorophenol	ND	130	82	84	2.4	81	75	7.7	30 - 130	30
2,4-Dimethylphenol	ND	230	80	84	4.9	86	79	8.5	30 - 130	30
2,4-Dinitrophenol	ND	230	102	111	8.5	80	60	28.6	30 - 130	30
2,4-Dinitrotoluene	ND	130	88	91	3.4	87	84	3.5	30 - 130	30

QA/QC Data

SDG I.D.: GCQ81819

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,6-Dinitrotoluene	ND	130	88	91	3.4	88	84	4.7	40 - 140	30	
2-Chloronaphthalene	ND	230	74	77	4.0	75	69	8.3	40 - 140	30	
2-Chlorophenol	ND	230	74	78	5.3	76	68	11.1	30 - 130	30	
2-Methylnaphthalene	ND	230	73	76	4.0	75	69	8.3	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	72	75	4.1	78	68	13.7	40 - 140	30	
2-Nitroaniline	ND	330	94	104	10.1	102	102	0.0	40 - 140	30	
2-Nitrophenol	ND	230	71	77	8.1	76	68	11.1	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	78	82	5.0	82	75	8.9	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	55	101	59.0	97	99	2.0	40 - 140	30	r
3-Nitroaniline	ND	330	75	94	22.5	93	92	1.1	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	99	108	8.7	83	68	19.9	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	84	85	1.2	81	79	2.5	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	85	88	3.5	86	84	2.4	30 - 130	30	
4-Chloroaniline	ND	230	45	73	47.5	75	74	1.3	40 - 140	30	r
4-Chlorophenyl phenyl ether	ND	230	75	77	2.6	75	72	4.1	40 - 140	30	
4-Nitroaniline	ND	230	78	85	8.6	83	81	2.4	40 - 140	30	
4-Nitrophenol	ND	230	93	96	3.2	94	92	2.2	30 - 130	30	
Acenaphthene	ND	230	70	74	5.6	77	74	4.0	30 - 130	30	
Acenaphthylene	ND	130	68	71	4.3	70	66	5.9	40 - 140	30	
Acetophenone	ND	230	67	71	5.8	68	62	9.2	40 - 140	30	
Anthracene	ND	230	78	81	3.8	80	88	9.5	40 - 140	30	
Atrazine	ND	130	74	82	10.3	77	78	1.3	40 - 140	30	
Benz(a)anthracene	ND	230	84	86	2.4	79	101	24.4	40 - 140	30	
Benzaldehyde	ND	230	76	85	11.2	90	75	18.2	40 - 140	30	
Benzo(a)pyrene	ND	130	86	87	1.2	78	93	17.5	40 - 140	30	
Benzo(b)fluoranthene	ND	160	88	88	0.0	81	103	23.9	40 - 140	30	
Benzo(ghi)perylene	ND	230	86	86	0.0	66	68	3.0	40 - 140	30	
Benzo(k)fluoranthene	ND	230	88	86	2.3	77	83	7.5	40 - 140	30	
Benzyl butyl phthalate	ND	230	83	87	4.7	86	85	1.2	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	72	76	5.4	73	66	10.1	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	71	70	1.4	68	60	12.5	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	83	86	3.6	84	82	2.4	40 - 140	30	
Caprolactam	ND	230	81	83	2.4	80	74	7.8	40 - 140	30	
Carbazole	ND	230	79	83	4.9	80	83	3.7	40 - 140	30	
Chrysene	ND	230	82	84	2.4	77	94	19.9	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	84	83	1.2	66	64	3.1	40 - 140	30	
Dibenzofuran	ND	230	72	75	4.1	74	72	2.7	40 - 140	30	
Diethyl phthalate	ND	230	81	83	2.4	80	78	2.5	40 - 140	30	
Dimethylphthalate	ND	230	81	83	2.4	80	77	3.8	40 - 140	30	
Di-n-butylphthalate	ND	670	89	91	2.2	86	83	3.6	40 - 140	30	
Di-n-octylphthalate	ND	230	85	90	5.7	86	86	0.0	40 - 140	30	
Fluoranthene	ND	230	81	84	3.6	71	114	46.5	40 - 140	30	r
Fluorene	ND	230	75	79	5.2	78	79	1.3	40 - 140	30	
Hexachlorobenzene	ND	130	76	80	5.1	74	74	0.0	40 - 140	30	
Hexachlorobutadiene	ND	230	70	71	1.4	68	60	12.5	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	72	74	2.7	49	31	45.0	40 - 140	30	m,r
Hexachloroethane	ND	130	66	70	5.9	66	57	14.6	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	90	90	0.0	71	74	4.1	40 - 140	30	
Isophorone	ND	130	69	74	7.0	71	64	10.4	40 - 140	30	
Naphthalene	ND	230	65	68	4.5	66	61	7.9	40 - 140	30	
Nitrobenzene	ND	130	75	80	6.5	78	70	10.8	40 - 140	30	
N-Nitrosodimethylamine	ND	230	67	71	5.8	67	60	11.0	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	72	77	6.7	75	69	8.3	40 - 140	30	

## QA/QC Data

SDG I.D.: GCO81819

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
N-Nitrosodiphenylamine	ND	130	75	78	3.9	77	76	1.3	40 - 140	30	
Pentachlorophenol	ND	230	97	95	2.1	83	78	6.2	30 - 130	30	
Phenanthrene	ND	130	76	78	2.6	73	110	40.4	40 - 140	30	r
Phenol	ND	230	76	78	2.6	80	73	9.2	30 - 130	30	
Pyrene	ND	230	79	82	3.7	69	101	37.6	30 - 130	30	r
% 2,4,6-Tribromophenol	62	%	67	71	5.8	67	67	0.0	30 - 130	30	
% 2-Fluorobiphenyl	68	%	66	69	4.4	67	62	7.8	30 - 130	30	
% 2-Fluorophenol	68	%	67	70	4.4	67	60	11.0	30 - 130	30	
% Nitrobenzene-d5	75	%	71	75	5.5	73	66	10.1	30 - 130	30	
% Phenol-d5	68	%	67	71	5.8	69	63	9.1	30 - 130	30	
% Terphenyl-d14	74	%	70	73	4.2	63	60	4.9	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 733938 (ug/L), QC Sample No: CQ81819 (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)

### Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	50	58	14.8	54			40 - 140	20	
2,4,5-Trichlorophenol	ND	17	80	91	12.9	84			40 - 140	20	
2,4,6-Trichlorophenol	ND	17	79	90	13.0	83			30 - 130	20	
2,4-Dinitrotoluene	ND	58	84	96	13.3	86			30 - 130	20	
2-Methylphenol (o-cresol)	ND	17	68	71	4.3	73			40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	17	71	82	14.4	77			30 - 130	20	
Hexachlorobenzene	ND	58	69	76	9.7	71			40 - 140	20	
Hexachlorobutadiene	ND	58	56	67	17.9	60			40 - 140	20	
Hexachloroethane	ND	58	52	62	17.5	58			40 - 140	20	
Nitrobenzene	ND	58	68	79	15.0	74			40 - 140	20	
Pentachlorophenol	ND	58	83	95	13.5	86			30 - 130	20	
Pyridine	ND	83	45	30	40.0	49			40 - 140	20	l,r
% 2,4,6-Tribromophenol	66	%	52	64	20.7	60			15 - 110	20	r
% 2-Fluorobiphenyl	73	%	57	70	20.5	66			30 - 130	20	
% 2-Fluorophenol	63	%	43	55	24.5	56			15 - 110	20	r
% Nitrobenzene-d5	85	%	57	72	23.3	69			30 - 130	20	r
% Phenol-d5	60	%	42	54	25.0	53			15 - 110	20	r
% Terphenyl-d14	82	%	62	77	21.6	71			30 - 130	20	r

Comment:

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

QA/QC Batch 733420 (ug/kg), QC Sample No: CQ81611 (CQ81819, CQ81820, CQ81821, CQ81822, CQ81823)

### Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	104	103	1.0	110	104	5.6	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	107	102	4.8	104	112	7.4	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	105	102	2.9	93	87	6.7	70 - 130	30	
1,1-Dichloroethane	ND	5.0	137	95	36.2	105	99	5.9	70 - 130	30	l,r
1,1-Dichloroethene	ND	5.0	91	91	0.0	102	96	6.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	104	100	3.9	39	37	5.3	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	5.0	101	99	2.0	43	42	2.4	70 - 130	30	m
1,2-Dibromo-3-chloropropane	ND	5.0	138	130	6.0	121	119	1.7	70 - 130	30	l
1,2-Dibromoethane	ND	5.0	107	102	4.8	96	92	4.3	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	102	99	3.0	81	81	0.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	103	100	3.0	94	91	3.2	70 - 130	30	
1,2-Dichloropropane	ND	5.0	100	101	1.0	99	96	3.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	99	97	2.0	81	83	2.4	70 - 130	30	

QA/QC Data

SDG I.D.: GCO81819

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	BLK RL								
1,4-Dichlorobenzene	ND	5.0	102	100	2.0	81	80	1.2	70 - 130	30
1,4-dioxane	ND	100	102	108	5.7	96	102	6.1	70 - 130	30
2-Hexanone	ND	25	100	92	8.3	89	83	7.0	70 - 130	30
4-Methyl-2-pentanone	ND	25	111	104	6.5	98	93	5.2	70 - 130	30
Acetone	ND	10	88	83	5.8	61	80	27.0	70 - 130	30
Benzene	ND	1.0	98	98	0.0	100	94	6.2	70 - 130	30
Bromochloromethane	ND	5.0	99	97	2.0	89	86	3.4	70 - 130	30
Bromodichloromethane	ND	5.0	107	107	0.0	97	94	3.1	70 - 130	30
Bromoform	ND	5.0	122	115	5.9	91	90	1.1	70 - 130	30
Bromomethane	ND	5.0	109	101	7.6	116	111	4.4	70 - 130	30
Carbon Disulfide	ND	5.0	88	88	0.0	92	86	6.7	70 - 130	30
Carbon tetrachloride	ND	5.0	117	115	1.7	107	105	1.9	70 - 130	30
Chlorobenzene	ND	5.0	101	97	4.0	91	87	4.5	70 - 130	30
Chloroethane	ND	5.0	101	100	1.0	117	113	3.5	70 - 130	30
Chloroform	ND	5.0	96	95	1.0	98	94	4.2	70 - 130	30
Chloromethane	ND	5.0	94	92	2.2	119	114	4.3	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	99	98	1.0	92	87	5.6	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	110	110	0.0	89	85	4.6	70 - 130	30
Cyclohexane	ND	5.0	95	94	1.1	96	88	8.7	70 - 130	30
Dibromochloromethane	ND	3.0	117	112	4.4	106	106	0.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	67	66	1.5	121	114	6.0	70 - 130	30
Ethylbenzene	ND	1.0	97	95	2.1	94	92	2.2	70 - 130	30
Isopropylbenzene	ND	1.0	102	101	1.0	123	130	5.5	70 - 130	30
m&p-Xylene	ND	2.0	98	97	1.0	90	86	4.5	70 - 130	30
Methyl ethyl ketone	ND	5.0	96	89	7.6	86	83	3.6	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	97	93	4.2	103	101	2.0	70 - 130	30
Methylacetate	ND	5.0	107	100	6.8	104	101	2.9	70 - 130	30
Methylcyclohexane	ND	5.0	103	101	2.0	89	81	9.4	70 - 130	30
Methylene chloride	ND	5.0	87	88	1.1	90	88	2.2	70 - 130	30
o-Xylene	ND	2.0	99	97	2.0	92	89	3.3	70 - 130	30
Styrene	ND	5.0	96	94	2.1	80	74	7.8	70 - 130	30
Tetrachloroethene	ND	5.0	103	103	0.0	89	85	4.6	70 - 130	30
Toluene	ND	1.0	101	100	1.0	93	89	4.4	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	92	94	2.2	94	89	5.5	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	116	115	0.9	78	74	5.3	70 - 130	30
Trichloroethene	ND	5.0	102	102	0.0	111	106	4.6	70 - 130	30
Trichlorofluoromethane	ND	5.0	98	96	2.1	115	111	3.5	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	89	93	4.4	105	101	3.9	70 - 130	30
Vinyl chloride	ND	5.0	84	85	1.2	109	101	7.6	70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	102	99	3.0	97	97	0.0	70 - 130	30
% Bromofluorobenzene	100	%	100	96	4.1	91	87	4.5	70 - 130	30
% Dibromofluoromethane	103	%	98	101	3.0	101	102	1.0	70 - 130	30
% Toluene-d8	100	%	102	102	0.0	97	96	1.0	70 - 130	30

Comment:

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

QA/QC Batch 733573 (ug/L), QC Sample No: CQ81823 (CQ81819 (10X) , CQ81820 (10X) , CQ81821 (10X) , CQ81822 (10X) , CQ81823 (10X) )

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	102	94	8.2	117	120	2.5	70 - 130	30
1,2-Dichloroethane	ND	0.60	97	95	2.1	100	102	2.0	70 - 130	30
Benzene	ND	0.70	99	96	3.1	107	111	3.7	70 - 130	30

QA/QC Data

SDG I.D.: GCQ81819

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Carbon tetrachloride	ND	5.0	107	99	7.8	117	116	0.9	70 - 130	30
Chlorobenzene	ND	1.0	100	98	2.0	107	109	1.9	70 - 130	30
Chloroform	ND	5.0	101	95	6.1	111	113	1.8	70 - 130	30
Methyl ethyl ketone	ND	5.0	100	93	7.3	97	93	4.2	70 - 130	30
Tetrachloroethene	ND	1.0	104	101	2.9	112	116	3.5	70 - 130	30
Trichloroethene	ND	5.0	102	100	2.0	111	115	3.5	70 - 130	30
Vinyl chloride	ND	5.0	112	102	9.3	119	125	4.9	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	101	101	0.0	99	102	3.0	70 - 130	30
% Bromofluorobenzene	96	%	99	99	0.0	100	101	1.0	70 - 130	30
% Dibromofluoromethane	89	%	96	92	4.3	87	90	3.4	70 - 130	30
% Toluene-d8	100	%	100	100	0.0	100	101	1.0	70 - 130	30


Comment:

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

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

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

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

  
 Phyllis Shiller, Laboratory Director  
 June 12, 2024

# Sample Criteria Exceedances Report

## GCQ81819 - AES-INC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ81819	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	540	270	500	500	ug/Kg
CQ81819	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	540	270	500	500	ug/Kg
CQ81820	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Commercial	5700	270	5600	5600	ug/Kg
CQ81820	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	4800	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	600	200	560	560	ug/Kg
CQ81820	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	6400	270	5600	5600	ug/Kg
CQ81820	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2200	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	2700	270	500	500	ug/Kg
CQ81820	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	600	200	330	330	ug/Kg
CQ81820	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	4800	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	6400	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	4800	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	5700	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	6400	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4800	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4800	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	600	200	330	330	ug/Kg
CQ81820	\$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5700	270	1000	1000	ug/Kg
CQ81820	\$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	270	500	500	ug/Kg
CQ81820	\$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2200	270	800	800	ug/Kg
CQ81820	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	11	2.4	3.3	3.3	ug/Kg
CQ81820	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	13	2.4	3.3	3.3	ug/Kg
CQ81821	AS-SM	Arsenic	NY / 375-6.8 Metals / Commercial	22.3	0.81	16	16	mg/Kg
CQ81821	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	22.3	0.81	16	16	mg/Kg
CQ81821	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	22.3	0.81	13	13	mg/Kg
CQ81821	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	224	0.8	50	50	mg/kg
CQ81821	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	64.2	0.41	30	30	mg/Kg
CQ81821	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	7410	4.1	1000	1000	mg/Kg
CQ81821	PB-SM	Lead	NY / 375-6.8 Metals / Residential	7410	4.1	400	400	mg/Kg
CQ81821	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	7410	4.1	63	63	mg/Kg
CQ81821	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	9.50	0.10	5	5	mg/L
CQ81821	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	155	0.8	109	109	mg/Kg
CQ81822	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	13.2	1.5	13	13	mg/Kg
CQ81822	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	452	0.76	400	400	mg/Kg
CQ81822	BA-SM	Barium	NY / 375-6.8 Metals / Residential	452	0.76	350	350	mg/Kg
CQ81822	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	452	0.76	350	350	mg/Kg
CQ81822	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	3.96	0.76	2.5	2.5	mg/Kg
CQ81822	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	3.96	0.76	2.5	2.5	mg/Kg
CQ81822	CU-SM	Copper	NY / 375-6.8 Metals / Commercial	1350	1.5	270	270	mg/kg
CQ81822	CU-SM	Copper	NY / 375-6.8 Metals / Residential	1350	1.5	270	270	mg/kg

Wednesday, June 12, 2024

Criteria: NY: 375, 375COM, 375RS

State: NY

## Sample Criteria Exceedances Report

### GCQ81819 - AES-INC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ81822	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	1350	1.5	50	50	mg/kg
CQ81822	HG-SM	Mercury	NY / 375-6.8 Metals / Commercial	4.25	0.56	2.8	2.8	mg/Kg
CQ81822	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	4.25	0.56	0.81	0.81	mg/Kg
CQ81822	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	4.25	0.56	0.18	0.18	mg/Kg
CQ81822	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	30.5	0.76	30	30	mg/Kg
CQ81822	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	1140	0.76	1000	1000	mg/Kg
CQ81822	PB-SM	Lead	NY / 375-6.8 Metals / Residential	1140	0.76	400	400	mg/Kg
CQ81822	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	1140	0.76	63	63	mg/Kg
CQ81822	ZN-SM	Zinc	NY / 375-6.8 Metals / Residential	5700	1.5	2200	2200	mg/Kg
CQ81822	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	5700	1.5	109	109	mg/Kg

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



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



## Analysis Comments

June 12, 2024

SDG I.D.: GCQ81819

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

### **PCB Narration**

**AU-ECD5 05/30/24-1:** CQ81821

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

Samples: CQ81821

Preceding CC 530B003 - None.

Succeeding CC 530B007 - DCBP SURR 17%L (15%)

### **PEST Narration**

**AU-ECD33 05/30/24-1:** CQ81822, CQ81823

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

Samples: CQ81822, CQ81823

Preceding CC 530B023 - Methoxychlor 26%L (20%)

Succeeding CC 530B037 - Methoxychlor 29%L (20%)

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

**AU-ECD35 05/29/24-1:** CQ81819, CQ81820, CQ81821

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

Samples: CQ81819, CQ81820, CQ81821

Preceding CC 529B028 - None.

Succeeding CC 529B051 - Heptachlor 22%L (20%)

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

### **SVOA Narration**

**CHEM28 05/28/24-1:** CQ81819, CQ81820, CQ81821, CQ81822, CQ81823

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 RSD% criteria: Benzo(a)pyrene 23% (20%)

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

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 0.087 (0.1)

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

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

**CHEM28 06/01/24-1:** CQ81819, CQ81820, CQ81821, CQ81822, CQ81823





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## Analysis Comments

June 12, 2024

SDG I.D.: GCQ81819

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 0.083 (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%.

### **VOA Narration**

**CHEM14 05/28/24-3:** CQ81819, CQ81820, CQ81821, CQ81822, CQ81823

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 25% (20%), 2-Hexanone 21% (20%), Acetone 31% (20%)

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

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



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# NY Temperature Narration

June 12, 2024

SDG I.D.: GCQ81819

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The samples in this delivery group were received at 2.7°C.  
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



**NY/NJ/PA CHAIN OF CUSTODY RECORD**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-1102

Cooler: Yes  No   
 Coolant: IPK  TCE  No   
 Temp: 22.7 C Pg 1 of 1

**Contact Options:**

Phone:   
 Fax:  pendyenvchng@phoenixlabs.com  
 Email:  em.pendergast@aol.com

Customer: AES Project: HWK105BC - Brooklyn Bus Rapid Project P.O.: 0942

Address: 42 West Ave. Report to: AES

Patchogue, NY 11772 Invoice to: AES

QUOTE #: \_\_\_\_\_

This section **MUST** be completed with **Bottle Quantities.**

Sampler's Signature: [Signature] Date: 5.24.24  
 Matrix Code: S  
 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

Sampler's SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
81819	SB11	S	5.24.24	8:55	X
81820	SB12			9:26	X
81821	SB13			11:23	X
81822	SB14			10:14	X
81823	SB15			10:55	X

MS/MSD (May be billed at rates unit rate)	TAL/TLR	FILL TLR	R/C	TH DRG / GRP
GL Amber 8 oz [W/ PO] [NHSO]				
GL Soil Container ( ) oz				
GL Soil Container ( ) oz				
GL Amber 1000ml [As Is] [HCl]				
PL As Is [ 250ml ] [ 500ml ] [ 1000ml ]				
PL H <sub>2</sub> SO <sub>4</sub> [ 250ml ] [ 500ml ] [ 1000ml ]				
PL NaOH 250ml				
Bacteria Bottle as is				

Relinquished by: [Signature] Accepted by: [Signature] Date: 5/28/24 Time: 140

Turnaround:  1 Day\*  2 Days\*  3 Days\*  4 Days\*  6 Days\*  Standard

\* SURCHARGE APPLIES 7 day

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

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

NY:  TOGS GW  CP-51 SOIL  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:

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

## Sarah Bell

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**From:** Eileen Pendergast <[empendergast@aol.com](mailto:empendergast@aol.com)>  
**Sent:** Friday, June 07, 2024 9:10 AM  
**To:** Sarah Bell  
**Subject:** Fw: Phoenix Labs - GCQ81819, HWK100SBC-BROOKLYN BUS ROUTES - Report Ready

Hi Sarah

Can you please re-run the total lead and TCLP lead in sample CQ81821?  
My customer wants to verify the result.

Thanks,

Eileen  
AES  
42 West Avenue  
Patchogue, NY 11772  
(631) 475-0020

--- Forwarded Message ---

**From:** "[reports@phoenixlabs.com](mailto:reports@phoenixlabs.com)" <[reports@phoenixlabs.com](mailto:reports@phoenixlabs.com)>  
**To:** "[empendergast@aol.com](mailto:empendergast@aol.com)" <[empendergast@aol.com](mailto:empendergast@aol.com)>  
**Sent:** Wednesday, June 5, 2024 at 05:32:32 PM EDT  
**Subject:** Phoenix Labs - GCQ81819, HWK100SBC-BROOKLYN BUS ROUTES - Report Ready

Delivery group GCQ81819 (HWK100SBC-BROOKLYN BUS ROUTES ) for the following samples:

CQ81819 - SB11  
CQ81820 - SB12  
CQ81821 - SB13  
CQ81822 - SB14  
CQ81823 - SB15

is available for review. Please click the following link to view report data.

[www.PhoenixLabs.com](http://www.PhoenixLabs.com)

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!  
[www.phoenixlabs.com/CustomerSurvey](http://www.phoenixlabs.com/CustomerSurvey)

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Please do not reply to this email.  
[cc'd:empendergast@aol.com;pendyenveng@optonline.net](mailto:cc'd:empendergast@aol.com;pendyenveng@optonline.net)